Department of Marine and Fisheries, Canada

METEOROLOGICAL SERVICE

MONTHLY WEATHER REVIEW

BY

R. F. STUPART, Director

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DEPARTMENT OF MARINE AND FISHERIES, CANADA.

METEOROLOGICAL SERVICE.

Monthly Weather Review.

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INTRODUCTION.

In compiling the present Review the principal data made use of are the telegraphic reports of observations received at this office for the purpose of weather forecasting, and reports by mail from voluntary observers and storm signal agents. For the data used in tracing the paths of areas of high and low pressure in the United States, we are indebted to the Chief of the Weather Bureau, Washington, D.C.

GENERAL SYNOPSIS.

From the Pacific Coast to the Lake Superior districts of Ontario the month was one of extreme cold. The mean temperature of the western half of the Dominion ranged from 2° to 16° below the average temperature of January for some twenty years previous. In the Ottawa Valley and along the Lower St. Lawrence and Gulf, the mean temperature was also subnormal but not to such a marked extent. In southern Ontario, western Quebec and the Maritime Provinces, however, the month was warmer than usual.

With the exception of a very few days the western portion of Canada was under the influence of areas of pronouncedly high pressure and their accompanying cold waves throughout the month. The path of these areas lay across northern British Columbia and the Prairie Provinces, but their influence was sufficiently extensive to depress the temperature of Vancouver Island and the southern mainland of British Columbia much below the seasonal average. On the Island 2° to 4° below the normal were recorded, and on the lower mainland from 6° to 10°. In the Cariboo district the most severe cold was experienced and here the greatest departures from normal, 11° to 14°, occurred.

Very low mean temperatures were recorded in the Prairie Provinces, across which lay the path of the cold waves. In the district lying immediately north and east of Edmonton, 60°, and more, below zero were recorded between the 11th and 13th, while 40° below occurred nearly everywhere in these provinces on the 1st, 2nd, 3rd, 11th, 12th, 13th and 14th. The average temperature of the month at all stations was between 5° and 15° below zero. On the 4th, 5th, 6th, 24th, 25th, 28th and 29th, the temperature rose to the freezing point or nearly so, and these were the warmest days of the month.

There were many stormy days during January throughout the west, with high winds and heavy snowfalls. The total snowfall varied between 5 and 20 inches in the Prairie Provinces, but an average would appear to have been 10 inches. In British Columbia, west of the Rockies, where during the winter months a very different climate prevails, there was much rain, and thunderstorms were reported from some localities. On the lower mainland snow and rain alternated during the greater part of the month, while on the higher levels the precipitation was mainly snow.

The district of Ontario lying to the west of Lake Superior experienced much the same weather during the month as the western provinces, except that the snowfall was not heavy. In the remainder of Ontario, with the exception of the Ottawa Valley, the mean temperature was higher than the January normal. The 3rd, 4th, 5th, 16th to 19th, were very cold days with temperatures considerably below zero. Several days, however, were very mild, with temperatures exceeding 40° throughout the greater part of the province. 57° was reported from Woodstock, and 63° from Pelee Island, on the 25th. Precipitation was in defect of the usual quantity.

In western Quebec the mean temperature of January was about 1° warmer than the normal, but along the Middle and Lower St. Lawrence and Gulf, the month was colder than usual by about 1°. Except at Quebec City and its immediate vicinity alone, the precipitation appeared to be less than the normal.

In New Brunswick and Prince Edward Island, the month was warmer than usual, with several mild days. Temperatures well below zero were recorded, however, from the 16th to the 18th, on the 20th, and at some places on the 30th and 31st.

In Nova Scotia, although mean temperatures were higher than normal over the greater part of the province, yet there were local exceptions.

An excess of precipitation was reported from northern New Brunswick and Cape Breton, but elsewhere in the Maritime Provinces less than the usual amount was recorded.

ATMOSPHERIC PRESSURE.

The mean value of the atmospheric pressure for January was above the average from Saskatchewan to the Maritime Provinces, while in Alberta and British Columbia it was below.

The positive departures from normal were generally about 0·05 of an inch, and the extreme was 0·09 of an inch at Kingston, Ont. Negative differences were at most places about 0·10 of an inch, and the extreme was 0·11 of an inch at Barkerville, B. C., and Banff, Alta.

HIGH AREAS.

Twelve areas of high pressure were charted, more than are generally recorded for January. Nine first appeared in the Yukon Territory, one in northern British Columbia and two on the United States Pacific Coast. During nearly the whole month a great anticyclonic system covered the Yukon Territory and the far North, and many of the nine areas which travelled from these regions were more strictly dislodgements or secessions from the great parent system. The areas either passed well to the northward of the Great Lakes into the St. Lawrence Valley and the Maritime Provinces or else well to the southward of the Great Lakes. The excessive cold by which they were usually accompanied caused a month of decidedly cold weather almost throughout the Dominion.

LOW AREAS.

Thirteen areas of low pressure were charted for the month; seven first appeared either on the northern British Columbian or the Alaskan Coast, two on the southern coasts of British Columbia, one in the South Pacific States, one in the Middle Mississippi Valley, one in the Gulf of Mexico and one to the southward of Nova Scotia. The general course of the areas was over or to the northward of the Great Lakes and ultimately across Eastern Canada and Newfoundland. Many of the systems were of pronounced energy, and strong winds and gales were of frequent occurrence, particularly in the Maritime Provinces and Newfoundland. Some very heavy gales were also experienced on the British Columbian coast.

WINDS.

The following table gives the general direction and force of the wind during the month over the Dominion. Owing to the topography of the interior of British Columbia, wind records cannot be accurately obtained there, but the mileage given for Banff, which is obtained on the top of Sulphur Mountain, 7,484 feet above sea level, is instructive.

In Alberta no records have been so far taken in the southern portion, and Calgary at present is not reliable. A lengthy series of records from Edmonton go to prove that the wind mileage is quite moderate in northern Alberta. The Toronto record is registered at Toronto Island, giving the full force of the winds which blow on Lake Ontario. In Quebec and the Maritime Provinces the gauges are well exposed.

PROVINCE.	Total Mileage.	Greatest Mileage in 24 hours.	Greatest Mileage in one hour.	Number of Gales.	Number of Strong Winds.	Number of Fresh Winds.	General Direction.
British Columbia.							
Victoria	7319 (19 days)	498	40	3	6	8	Variable.
Triangle Island	10518	1183	87	5	8	3	
Alberta.							
Edmonton	3515	423	36	2	0	3	
Calgary	2350	162	16	0	1	5	
Sulphur Mt., Banff	15201 (27 days)	1025	56	10	6	4	Variable.
Saskatchewan.							
Qu'Appelle	5107	394	26	0	3	10	North and West.
Battleford	5639	413	60	1	8	8	
Manitoba.							
Winnipeg	8130	502	36	2	11	10	North and West.
Ontario.							
Port Arthur	6631	153	35	5	7	10	
Parry Sound	7618	442	31	6	8	6	Variable.
Woodstock	8203	537	34	6	8	6	
Toronto	10641	506	52	6	8	6	
Quebec.							
Montreal	9518	652	39	2	12	11	North and West.
Quebec	11002	616	45	5	15	4	
Maritime Provinces.							
Pt. Le Preaux	15112	927	48	6	9	8	Northwest, West and Southwest.
Halifax	10526	725	46	6	9	8	
St. John	10852		41	6	9	8	
Flat Pt	11829	817	65	6	9	8	

In the Maritime Provinces, where in most localities navigation remains open the year round, the gales were experienced on the 4th, between the 9th and 10th, between the 19th and 20th, on the 21st, between the 28th and 29th, and between the 30th and 31st. These storms were all successfully warned except the one which occurred between the 19th and 21st, and which was generally moderate.

TEMPERATURE.

Extreme cold prevailed over the Western Provinces of Canada during the month of January. In the greater portion of Southern Ontario, however, the month was warmer than average, and this was also the case in the Maritime Provinces and Western Quebec.

The highest and lowest temperatures recorded in each Province during the month of January, 1911, were:

	HIGHEST.	LOWEST.
British Columbia,	50° at Sooke on the 1st, and Victoria on the 5th	—50° at Chilcotin on the 13th.
Alberta,	49° at Macleod on the 4th.	—76° at Fort Vermilion on the 11th.
Saskatchewan,	36° at Stanley Mission on the 22nd	—60° at Onion Lake on the 13th.
Manitoba,	32° at Ninga on the 28th.	—45° at Oakbank on the 3rd, and Dauphin on the 11th.
Ontario,	63° at Pelee Island on the 25th.	—48° at White River on the 6th.
Quebec,	45° at Ste. Anne de Bellevue on the 2nd.	—47° at Abitibi on the 6th.
New Brunswick,	52° at Grand Manan on the 4th.	—24° at Chatham on the 18th.
Nova Scotia,	60° at Wolfville on the 4th.	—20° at Antigonish on the 18th.
P. E. Island,	50° at Hamilton on the 3rd.	—15° at Charlottetown on the 18th.

PRECIPITATION.

From the Pacific Coast to Eastern Manitoba the precipitation was in excess of the normal amount, but elsewhere in the Dominion excess was reported from but few localities.

BRIGHT SUNSHINE.

In British Columbia, Alberta and Saskatchewan the duration of bright sunshine was much less than the normal. In Manitoba there were more bright days than usual, and this was the case in Eastern Ontario also. Elsewhere there was little difference from normal.

SNOW ON THE GROUND.

In British Columbia there was sleighing on several days. At the close of the month in the Western Provinces the depth varied from a trace in Southern Alberta to 8 inches at Edmonton, 14 at Prince Albert, and about 6 inches over most of Manitoba. In Ontario the snow on the ground ranged from about 2 inches in the south to 27 inches in the Ottawa Valley, and 21 inches in New Ontario. Quebec and Northern New Brunswick reported a depth of from 20 to 48 inches of snow, and the Maritime Provinces 5 to 28 inches.

THICKNESS OF ICE.

Thickness of ice as reported from various stations was as follows :—

Western Provinces.—**Edmonton,** 22 inches ; Medicine Hat, 24 inches ; Swift Current, 30 inches; Qu'Appelle, 24 inches ; Minnedosa, 27.5 inches.

Ontario.—**Port Arthur, 14 inches;** White River, 14 inches; Bruce Mines, 16 inches; Gravenhurst, 18 inches ; Clinton, 4 inches ; Strathroy, 10 inches ; Port Burwell, 9 inches ; Georgetown, 14 inches ; Kingston, 7·5 inches ; Lansdowne, 9 inches ; Renfrew, 12 inches ; Ottawa, 24 inches.

Maritime Provinces.—**Chatham,** 16 inches; Yarmouth, 8 inches ; Sydney, 16 inches ; Charlottetown, 12 inches.

PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA, JANUARY, 1911.

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

STATION.	Latitude N.	Longitude W.	Elevation above sea level, in feet.	PRESSURE. Mean reduced.	Highest.	Lowest.	Range.	TEMPERATURE. Mean.	Difference from average.	Years observed	Highest.	Date.	Lowest.	Date.	Mean daily range.	Mean temperature of dewpoint.	Mean relative humidity.	Mean amount of cloud.	No. of days completely clouded.	DIRECTION OF WIND FROM N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.	Total number of observations.	VELOCITY OF WIND. Mean miles per hour.	Highest day's velocity.	Date and direction from.	PRECIPITATION. Amount.	Difference from average.	Heaviest fall in month.	Days with .01 or more.	No. of fair days.	No. of auroras.	No. of thunderstorms.	No. of fogs.
BRITISH COLUMBIA—				in.	in.	in.	in.																																	
Alberni (Beaver Creek)	49	15	124	49	300																																			
Agassiz	49	14	121	31	92			28 0	6 7	20	48 0		5 3 0		11 8 6																									
Atlin	59	35	133	38	2240	30 18	30 07	8 8	5 3	9	5	2	41 5	19	9 9			6	5	18	12	2	2	7	0	0	7	8	62	1 6	16 0	11 N	0 75	0 17	10	21	1	0	0
Barkerville	53	2	121	35	4180	29 86	30 02	5 0	13 5	21	32 0		4 40 0	10	13 10 2			7	17	0	0	0	0	6	0	0	0	56	62	2 1	10 0	22 SW	5 90	3 17	1 70	13	18	0	0	0
Bella Coola	52	60	126	51	150			19 1	6 1	11	41 0		5 18 0	12	13 11 2																									
Babine Lake	55	38	126	26				2 5		3	36 0		6 17 5		11 19 1																									
Chilcotin (Big Creek)	51	40	123	0	3100			2 0		8	15 0		1 50 0		13 26 0																									
Cranbrook	49	30	115	50				14 0		2	41 5		6 33 0		14 16 9																									
Clayoquot	49	11	125	47	10			36 2	3 2	12	48 0		4 17 0		13 11 6																									
Cowichan (Tzouhalem)	48	25	123	42	170			33 9		5	47 1		7 16 0	12	13 8 7																									
Chilliwack	49	10	121	57	21			26 0	8 6	11	48 0		6 5 0		13 7 2																									
Enderby	50	32	119	7	1180			12 9		9	41 0		7 27 0		14 17 1																									
Fort St. James (Stuart's Lake)	54	28	124	12	2280			0 0	9 7	18	40 5		6 52 5		13 21 0																									
Fairview	49	11	119	36				6 6		2	21 0		6 12 0	12	13 11 6																									
Fruitvale	49	9	117	31				16 1		1	39 0		9 19 0		11 18 1																									
Glacier	51	14	117	29	1072			9 0	6 9	11	30 0	8	26 28 0		14 11 5																									
Golden	51	16	116	55	2350			1 6		9	34 0		7 39 0		14 16 5																									
Holberg	50	39	128	18				31 3		2	46 0		4 11 5		13 4 9																									
Hedley	49	35	120	10				17 5		7	48 0		9 20 0		13 11 0																									
Hedley (Nickel Plate)								7 7		6	28 0		5 35 0		13 15 2																									
Hope	49	23	121	25				21 7		1	41 0		6 13 0		13 6 1																									
Ikeda Bay	52	17	131	7									3																											
Kamloops	50	41	120	20	1215	29 90	30 76	30	29	21	1	52	11 2	13 5	20 32 5		18	30 5		14 12 1		81	7	6	0	1	12	1	2	6	31	2	7	62	4 1	16 0		0 54	0 41	0	20	8	23	0	1	0
Ladner	49	5	123	4				31 2	1 7	10	50 0		7 1 0		12 9 5																									
Massett, Q.C.I.	53	58	132	9	30			30 7	5 4	11	49 0		3 1 0		13 12 2																									
aNanaimo	49	10	123	37	125	29 81	30 56	28	29	01	1	66	33 6	2 1	10 18 0		22	13 0		16 9 3			8	16	0	0	0	17	1	1	0	10	33	62	4 3	33 0	1	7 53	0 94	1	26	5	11	0	1	7
Nicola Lake	50	9	120	39	2120			11 2	9 5	16	41 0		6 37 0		14 15 2																									
North Nicomen	49	12	122	2	20			28 6	6 5	19	49 0		7 5 0		14 9 4																									
New Westminster	49	13	122	54	330			30 8	4 6	21	41 0		7 0 0		13 7 2																									
Nelson	49	29	117	21	1750																																			
Needles								23 0		2	43 0		8 6 0		14 14 1																									
Okanagan Mission (Kelowna)	49	52	119	29	1290			17 4	7 7	11	41 0	5	7 16 0		14 14 1																									
Princeton	49	29	120	29	1650			10 5	6 2	11	43 0		5 18 0		12 18 5																									
Penticton	49	29	119	35																																			
Pemberton Hatchery	50	20	122	33				18 1		3	36 0		6 13 0		13 7 3																									
Prince Rupert	54	18	130	18	170	29 77	30 38	29	17	1	21		26 0		1 17 0																									
Quesnelle	52	30	122	30	1700			3 2	10 8	16	15 0		5 12 0		10 20 1																									
Revelstoke	51	0	118	6	1176			11 2	6 3	10	38 0		6 29 0		14 13 8																									
Rossland	49	5	117	48	3100			20 5		8	36 0		7 1 5		14 8 1																									
Ruskin (Stave Falls)	49	16	122	23	125			29 6		2	46 0		7 0 0	12	13 7 5																									
Salmon Arm	50	12	119	35	1152			8 9		9	44 0		6 27 0		14 11 7																									
Steveston (Garry Point)	49	21	123	17				31 6	1 2	15	46 0		5 0 0		14 9 4																									
Swanson Bay	50	37	126	53				23 8		3	43 0	5	23 8 0		14 10 8																									
Salt Spring Island	48	50	123	20				32 8		2	49 0		7 13 0		13 9 0																									
Summerland	49	57	119	0	1100			17 3		1	46 0		5 17 0		13 14 9																									
Sooke	48	11	123	44	25			37 8		1	50 0		1 15 0	13	15 12 6																									
Stewart	56	1	130	1	215			12 2		1	36 5		7 9 5		13 9 0																									
Tobacco Plains (Elko)	49	1	115	5	2684			19 9	2 8	15	49 0		7 19 4		14 12 5																									
Triangle Island	50	52	129	5	680																																			
aTranquille	50	41	120	29																																			
Vernon (Coldstream Ranch)	50	14	119	15	1570			13 3	9 7	17	45 0		6 26 0		14 13 0																									
Victoria	48	24	123	19	85	29 90	30 62	29	03	1	50		36 2	— 3 9	19 50 2		6	14 9		13 7 5		89	9	10	19	2	2	5	3	13	13	3	4	62	10 0	46 0	9 SW	4 30	0 24	0	31	22	9	0	1	0
Vancouver	49	17	123	5	130	29 91	30 65	28	99	1	06		32 6	— 2 0	10 44 0	7	16	6 4		11 6 4		89	9	18	0	2	25	9	2	3	1	1	19	62	3 6	10 0	—	6 11	0 91	0	68	25	6	0	0	1
Winter Harbour	50	32	128	3							15 47 0		3 12 0		11																								0	0	1
Wilmer	50	31	116	11				7 1			2 35 0		28 32 0		13 15 9																									

YUKON :—																																										
Carcross	60	11	134	34	2171					−10·3	—	4	38·0	6	−45·0	26	15·4																		0·65	—	0·30	3	28	0	0	0
Dawson	64	4	139	20	1200	30·57	31·21	29·72	1·49	−35·0	—	8	2·0	4	−62·0	25	11·8			9	20	0	0	0	0	12	0	1	5	41	62				1·52	—	0·40	12	19	0	0	18
White Horse	60	45	135	0	2075					−24·0	—	7	35·0	2	−59·0	26	20·3																		0·20	—	0·05	6	25	0	0	0
ALBERTA—																																										
Athabasca Landing	54	43	113	17	1650					−18·4	—	8	37·0	3	−66·0	11	25·1					3	6	2	1	2	2	9	5	0	30				0·92	—	0·25	6	25	0	0	0
Alix	52	21	113	10						−6·3	—	8	42·0	2-3	−55·0	13	24·3					9	3	0	0	3	6	0	8	1	30				1·20	—	0·35	8	23	0	0	0
Banff	51	10	115	34	4542	30·00	30·85	29·11	1·44	5·0	−8·7	15	35·7	6	−36·5	10-11	19·1				4	1	11	2	4	0	17	17	1	9	62				3·12	+2·00	1·01	15	16	0	0	0
Blairmore	49	40	114	30	4225					5·8	—	1	39·8	4	−37·8	13	19·4																		0·65	—	0·45	4	27	0	0	0
Calgary	51	2	114	2	3389	30·04	30·74	29·48	1·26	−0·8	−13·5	26	46·0	4	−44·0	13	19·3				5	1	13	4	3	2	5	4	21	8	61				0·44	−0·02	0·16	7	24	0	0	0
Cardston	49	12	113	18						3·3	—	7	42·0	4	−46·0	12	28·2																		2·80	—	0·80	8	23	0	0	0
Didsbury	51	40	114	8	3300					−0·7	—	9	46·0	1	−50·0	13	18·6					1	8	4	4	0	2	6	5	0	30				0·30	—	0·10	3	28	0	0	0
*a*Dunvegan	55	56	118	35	1305																																					
Daysland	55	52	112	17						−11·3	—	4	40·0	3	−53·0	13	17·8					6	4	2	0	0	4	4	11	0	31				0·70	—	0·45	3	28	0	0	0
Edmonton	53	33	113	30	2158	30·10	30·80	29·41	1·39	−7·2	−15·5	27	42·0	3	−52·0	13	23·0				7	7	7	3	4	9	3	6	12	11	62				1·18	+0·47	0·35	14	17	1	0	0
Eckville	52	23	114	22						−9·5	—	7	45·0	5	−52·0	13-14	25·6																		0·60	—	0·20	3	28	0	0	0
Fort Vermilion	58	27	116	3						−29·0	—	7	7·0	3	−76·5	11	21·6																		0·91	—	0·30	8	23	8	0	8
Gleichen	50	59	112	54	2952					−3·9	—	8	41·0	4	−41·0	12	18·6																		—	—	—	—	—	0	0	0
Gilt Edge	52	59	110	43						−11·2	—	2	28·7	5	−52·4	13	17·7					4	7	1	2	2	4	4	6	1	31				2·10	—	0·50	11	25	0	0	0
Hillsdown	52	11	113	29	2806					−5·0	—	7	42·6	4	−47·0	11	21·6					3	9	0	7	2	5	0	27	9	62				0·85	—	0·15	13	18	2	0	3
High River	50	35	113	53	3394					0·1	—	8	45·0	5-8	−43·0	13	23·3																		0·90	—	0·15	13	18	0	0	0
Harmattan	51	45	114	23	3500					−4·5	—	3	47·0	5	−18·0	13	30·6																		0·48	—	0·20	8	23	0	0	0
Halkirk, (Emsburg)										−8·1	—	5	34·0	3-6	−44·0	13	18·5					6	5	1	9	1	15	1	20	2	60				0·50	—	0·30	5	26	0	0	0
Lethbridge	49	42	112	51	2961					4·4	−13·0	10	46·0	7	−39·3	12	28·7																		0·82	—	0·40	10	21	0	0	0
Lethbridge (Exp. Farm)	49	43	112	51						0·8	—	3	44·5	6	−38·8	1	30·2																		—	—	—	—	—	0	0	0
Lacombe	52	58	113	44	2783					−7·3	—	4	40·0	3	−47·5	13	23·3																		0·55	—	0·10	11	20	0	0	0
Lawrence	50	16	113	26						−1·6	—	5	38·0	4-6	−44·0	12	26·0																		0·80	—	0·20	8	23	0	0	2
Lunnford	54	33	114	19						−11·7	—	1	43·0	3	−61·2	13	26·7																		1·67	—	0·55	10	21	0	0	0
Loveland	52	30	111	59						−7·6	—	1	43·0	3-5	−45·0	12-13	22·1					1	5	1	3	0	7	0	13	0	30				—	—	—	—	—	0	0	0
Medicine Hat	50	1	110	37	2161																																					
Macleod	49	44	113	24	3128					2·9	−15·3	16	49·0	4	−45·0	12	27·2																		1·20	+0·76	0·60	3	28	0	0	0
Peace River Crossing	56	15	117	15						−22·9	—	4	42·0	4	−70·0	12	22·0																		1·65	—	0·10	12	19	0	0	0
Pembina	54	12	114	0						−15·3	—	4	42·0	3	−60·0	13	26·6																		0·47	—	0·20	11	20	6	0	0
Pakan (Victoria)	54	0	112	41						−13·8	—	7	40·5	3	−62·0	13	33·1																		1·22	—	0·60	9	22	2	0	0
Pincher Creek	49	0	114	4	3750																																					
Red Deer	52	16	113	49																																						
Spirit River	55	40	118	47						−15·0	—	2	45·0	5	−58·0	13	20·3																		0·25	—	0·10	6	25	0	0	0
Threehills Creek	51	30	113	11						−8·3	—	9	41·0	4	−46·0	13	22·9																		0·70	—	0·20	8	23	7	0	0
Wetaskiwin	52	58	113	23	2480					−7·1	—	9	40·0	3	−50·0	13	16·5																		0·88	—	0·33	4	27	0	0	0
Waitefield	53	29	111	38	2000					−13·5	—	7	33·0	3	−57·0	13	21·4					11	10	5	13	7	7	6	26	5	93				1·30	—	0·50	19	12	7	0	0
SASKATCHEWAN—																																										
Battleford	52	41	108	20	1620																																					
Broadview	50	23	102	33	1960																																					
Brownlee	50	45	106	0						−8·2	—	1	32·2	3	−38·1	12	18·6					5	3	1	2	5	5	3	6	1	31				0·70	—	0·20	6	25	2	0	0
Chaplin	50	26	106	39	2202					−8·5	−9·8	23	31·0	3	−40·0	13	23·3					3	6	0	5	1	4	1	11	0	31				2·70	—	0·60	12	19	3	0	1
Cannington Manor	49	43	102	2	2064					−11·6	−12·3	12	22·0	6	−12·0	2	16·5																		1·20	—	0·30	8	23	0	0	0
Crescent Lake	50	59	102	25	1658					−15·2	—	7	23·0	24	−43·7	13	25·0					4	4	0	4	6	2	3	8	0	31				1·58	—	0·35	9	22	5	0	0
Duck Lake	52	54	106	20						—	—	6	—	—	−47·0	13	—																		—	—	—	—	—	0	0	0
Estevan	49	12	103	4	1858					−6·0	−9·5	10	30·0	3	−36·0	1	19·1					4	2	7	3	1	5	5	2	2	31				0·80	—	0·20	5	26	1	0	0
Esterhazy (Fairfield)	50	39	102	4						−17·3	—	3	23·0	24	−19·0	15	20·4					2	3	2	5	2	1	1	12	3	31				4·55	—	0·70	12	19	3	0	2
East End	49	31	108	49																																						
Foxleigh	50	37	104	29						−9·6	—	4	32·0	3	−40·0	13	19·6																		—	—	—	—	—	0	0	0
File Hills	51	4	103	31						−15·1	—	1	28·0	3	−50·0	13	22·1																		1·40	—	0·80	4	27	0	0	0
Grenfoll (Brownhill)	50	23	102	53	1957					−8·9	−7·6	20	25·0	3	−39·0	13	20·4					2	9	2	10	5	9	0	23	0	60				2·10	—	0·40	11	20	2	0	1
Govan	51	17	101	54						−12·0	—	2	30·8	4	−40·2	13	21·0																		3·56	—	0·60	12	19	0	0	0
Glenbryan (Larchmont)										−10·9	—	1	30·0	31	−45·5	1	18·9					1	12	0	3	2	15	12	6	1	62				1·25	—	0·30	7	24	3	0	0
Humboldt	52	12	105	9						−20·2	—	6	16·0	31	−42·0	11-14	17·4																		1·41	—	0·25	13	15	0	0	0
Hubbard (Drumague)	51	5	103	24																																						
Indian Head	50	28	103	40	1924					−11·8	−13·2	20	23·0	23	−41·0	13	19·8					4	8	14	8	16	9	3	29	2	98	III	X	3 NW	2·97	+2·63	0·73	11	20	0	0	0
Kamsack	51	30	101	52																																						
Lloydminster	53	18	110	0						−15·6	—	5	35·5	4	−58·0	13	20·9																		—	—	—	—	—	0	0	0
Lanigan	51	51	105	2																																						
Le Pas	53	49	101	15	860																																					
Moose Jaw	50	21	105	35	1759																																					
Moosomin	50	0	101	37	1884					−12·5	—	8	31·0	28	−39·0	14	17·7					1	1	1	2	0	4	5	17	0	31				—	—	—	—	—	0	0	0
Meota	51	0	108	20	1700					−17·5	—	5	32·0	3	−61·0	12	21·2																		—	—	—	—	—	3	0	2
Muenster (St. Peter's Monastery)	52	0	105	0	1870					−14·8	—	7	23·0	3	−47·0	13	23·0					4	8	2	5	0	3	0	9	0	31				2·00	—	0·60	6	25	0	0	0
Melfort	52	47	104	30						−17·9	—	2	18·0	23	−48·5	11	18·4																		0·80	—	0·20	5	26	3	0	0
Maple Creek	49	55	109	28																																						
Onion Lake	53	52	109	59						—	—	5	—	—	−60·0	13	—					5	12	5	1	0	0	1	5	2	31				—	—	—	—	—	0	0	0
Oliver	51	46	108	10						−13·1	—	1	29·0	5	−43·0	13	17·8																		1·70	—	0·30	10	21	3	0	0
Pense (Gatesgarth)	50	20	105	0	1879					−10·5	−13·5	16	30·0	3	−46·0	13	22·0					7	4	5	2	0	2	8	3	0	31				—	—	—	—	—	0	0	0
Prince Albert	53	10	106	0	1432																																					
Qu'Appelle	50	30	103	47	2115																																					
Regina	50	27	104	37	1885					−11·8	−7·9	24	19·0	17	−45·0	14	19·3																		0·63	+0·25	0·10	10	21	0	0	1
Rathmullen	51	20	108	57						−10·8	—	1	30·5	4	−41·5	14	22·2																		0·92	—	0·25	9	22	0	0	0

PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA, JANUARY, 1911.

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

STATION.	Latitude N.	Longitude W.	Elevation above sea level, in feet.	Pressure. Mean reduced.	Highest.	Lowest.	Range.	Temperature. Mean.	Difference from Average.	Year observed.	Highest.	Date.	Lowest.	Date.	Mean daily range.	Mean temperature of dewpoint.	Mean relative humidity.	Mean amount of cloud.	No. of days completely clouded.	Direction of wind from N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.	Total number of observations.	Velocity of wind. Mean miles per hour.	Highest day's velocity.	Date and direction from.	Precipitation. Amount.	Difference from average.	Greatest fall in month.	Days with .01 or more	No. of fair days.	No. of rain storms	No. of thunder storms	No. of days
				in.	in.	in.	in.																																		
SASKATCHEWAN *Con.*																																								
Rosthern	52	10	106	20	1057			17·2			42·2	9	4	45·0	13	19·0																2·20		0·60	7	24	0	0	0
Swift Current	50	20	107	45	2139																																			
Saskatoon	52	15	106	30	1571			11·9	13·1	25	33·2	1	45·2	13	21·3																2·60	+2·11	0·10	15	16	0	0	0
Strassburg	51	5	104	56				10·2			32·0	3	41·0	12	18·7																						0	0	0
Scott (Hearts Hill)	51	50	109	30				26·4			13·0	24	—57·5	12	20·5																0·18	—	0·10	3	28	0	0	0
Stanley Mission								2·3			36·0	22	—43·0	30	17·5					13	9	7	5	0	2	6	7	13	62				0·45	—	0·10	7	24	1	0	0
Wascana	53	6	109	29				15·9			32·0	3	—52·0	13	20·0					0	7	3	2	0	4	2	11	2	31				1·15	—	0·50	7	24	0	0	0
Yorkton	51	11	102	29																																				
MANITOBA —																																								
Almasippi	49	14	99	20				10·1			28·0	23	—41·0	3	18·6																0·10	—	0·10	4	27	0	0	0
aAweme (St. Alban's)	49	42	99	33	1180	28·79	29·26	28·41	0·85	10·5	7·6	21	24·5	23	—42·5	11	20·2															1·53	+0·41	0·43	18	13	5	0	0
Brandon	49	51	99	57	1176			11·0	11·3	24	21·9	23	—41·1	11	18·7			6	9	2	32	3	2	0	7	11	32	1	93	1	11	21 N E	1·90	+1·07	0·50	9	22	0	0	0
Berens River	52	18	97	23	710			17·2			46·0	24	—43·5	3	23·3					22	5	7	7	5	1	13	2	0	62				0·40	—	0·3·	2	20	0	0	0
Carberry	49	52	99	20	1258																																			
Carman	49	31	98	0	872																																			
Cypress River	49	33	99	3	1232																																			
Dauphin	51	8	100	2	957			11·5			25·0	21	—45·0	11	20·6																						0	0	0
Hillview	49	55	100	33	1400			15·9	11·1	25	30·0	23	—43·0	3	11·6	9		5	10	10	3	15	9	0	10	5	41	0	93				2·30	+1·28	1·20	7	24	0	0	0
Minnedosa	50	15	99	50	1680	30·11	30·70	29·60	1·10	11·5	10·9	27	29·0	29	13·2	3	21·1		5	1	6	4	1	0	2	6	13	29	62				1·19	+0·31	0·54	13	18	1	0	0
Morden	49	11	98	6	978			6·9			28·0	23	—31·0	11	19·3					1	1	1	2	1	1	2	10	9	31				1·26	—	0·20	14	17	0	0	0
Moose Horn Bay (Aikensville)	51	15	99	33				16·4			32·8	24	—40·1	11	18·9					25	3	1	7	7	0	4	8	4	62				1·95	—	0·42	11	17	13	0	0
Ninga	49	14	99	51	1619			8·0			31·7	28	—36·0	11	18·4																									
Oakbank	49	57	96	12	800			10·5	4·7	16	19·5	23	—45·0	3	17·0					9	2	0	2	4	2	2	10	0	31				0·20	0·01	0·20	3	28	0	0	0
Pipestone	49	31	100	58	1100																																			
Portage la Prairie	49	57	98	17	830			11·2	7·9	21	25·0	23	—38·0	10	17·4																	2·25	0·65	1·10	7	24	0	0	0
Portage la Prairie (2)	49	56	98	17																																				
Pierson	49	11	101	5	1531																																			
Stony Mountain	50	40	97	14	803			11·7	9·0	29	18·0	24	—42·0	3	21·2						4	12	7	5	6	1	6	18	0	62	2·4	4·0		0·80	+0·40	0·40	4	27	0	0	1
Swan River	52	6	101	15	1112			16·2			34·0	23	—43·0	2	17·0																									
Treherne	19	36	98	40	1212			10·0	12·1	15	28·0	23	—28·0	11	15·6																	1·06	—	0·25	10	21	0	0	0
Virden	49	51	100	55	1111																																			
Winnipeg	19	53	97	7	760	30·19	30·74	29·60	1·14	10·1	7·5	37	20·4	23	—37·0	11	18·4			5	1	9	1	6	4	6	1	12	15	5	62				0·43	—0·54	0·14	11	20	0	0	0
ONTARIO —																																								
Alton	43	51	80	5	1250			18·7	+ 1·0	25	43·0	15	—12·8	4	17·8			5	1	0	3	0	15	22	15	38	0	0	93	11	N	30 W	0·70	—1·67	0·19	7	24	0	0	3
Aurora	43	57	79	24	886			19·6			34·0	2	—16·4	16	09·3																			1·47	—0·63	0·22	14	17	0	0	0
Agincourt	43	47	79	16	560			22·1	+ 3·1	15	42·2	2	—8·0	16	13·5					3	9	14	8	5	14	19	21	3	93				1·81	—0·49	0·56	16	15	0	0	3
Barrie	44	23	79	41	889																																			
Beatrice	45	8	79	20	800			16·6	+ 3·6	30	42·0	2	—21·0	4	21·7			7	15	0	0	2	10	24	6	3	22	26	93	11	IV	—	2·46	—2·01	0·15	9	22	0	0	0
Bruce Mines	46	18	83	55	595			13·0	—0·7	14	39·0	24	—8·0	4	19·5																			0·70	—1·39	0·40	3	28	2	0	0
Birnam	43	2	81	55	600			25·3	+ 4·6	29	42·5	27	0·0	5	9·8					2	1	1	3	15	11	9	19	1	62				1·37	—1·84	0·42	10	21	0	0	9
Brantford	43	10	80	21	750			25·3	+ 1·9	30	45·0	26	—1·0	3	13·1																			1·20	—1·13	0·80	3	28	0	0	2
Bloomfield	43	59	77	21	260			20·8	+ 0·4	11	42·0	3	13·0	4	15·2																			1·19	—	0·35	7	24	0	0	0
Bancroft	45	1	77	50																																				
Copper Cliff	46	30	80	59				8·7			36·5	11	—33·0	4	25·1																			1·10	—	0·40	4	27	0	0	0
Clinton	43	32	81	37				22·9			41·0	25	—12·0	18	13·7					4	2	2	10	21	3	30	10	0	62				3·75	—	0·40	18	13	0	0	0
Coldwater	44	38	79	40	600			16·2	+ 0·9	22	41·0	2	—25·0	4	22·0																			1·93	—2·33	0·53	7	24	0	0	0
Cottam	42	7	82	45	606			24·8	1·0	23	49·0	25	—3·0	3	18·4					21	0	1	5	9	11	12	3	0	62				2·24	—0·69	0·45	7	24	0	0	3
Chatham	42	23	82	12	595			26·6	+ 1·8	24	49·0	25	0·0	4	15·7																			2·14	—0·32	0·58	5	26	0	0	0
Cochrane	49	2	81	0	930																																			
Collingwood	44	31	80	2				26·8	+ 6·6	19	50·0	7	—2·0	3	17·3																			1·55	—	0·40	9	22	0	0	0
East Toronto	43	35	79	18				23·7			42·0	2	—7·0	3	16·0																			2·80	—	1·06	12	19	0	0	3
Elora	43	41	80	24	1274			21·0	+ 3·0	15	41·0	12	—6·0	18	19·1	5																			2·21	—0·81	0·81	12	19	0	0	2
Gravenhurst	44	54	79	20				15·3	+ 0·5	10	42·0	1	—26·6	4	21·1			6	7	5	1	15	28	8	8	3	14	11	93	11	V	30 W	2·64	—0·70	0·67	15	16	2	0	0
Guelph	43	33	80	16	1050			23·2	+ 3·4	23	42·0	2	—1·0	18	13·0																			1·13	—1·07	0·30	5	26	0	0	1
aGrimsby	43	13	79	36		29·72	30·18	29·18	1·00	26·3	—	2	47·0	27	28·3·0	4	15·1																	2·19	—	0·61	11	20	0	0	0

ONTARIO—*Concluded.*																																										
Haileybury	47	29	79	39	687	30·11	30·68	29·11	1·57	5·1	+ 0·1	17	37·8	11	−31·9	4	25·1					8	1	3	6	6	4	8	13	13	62	I	III	—	1·20	−0·83	0·47	13	18	3	0	3
Hamilton	43	16	79	54	303					26·2	+ 3·2	35	44·0	2-27	0·0	1	10·2																		1·60	−1·48	0·10	9	22	0	0	1
Haliburton	45	1	78	28	1050					14·8	+ 1·4	25	40·0	2	−25·0	17	22·7																				—	—		0	0	0
Huntsville	45	19	79	8						15·6	—	4	45·0	11	−22·0	1	21·1																		—	—		—		0	0	0
Kenora	49	48	94	32	1102					9·5	11·9	12	25·0	29	37·0	5	17·4																		0·90		0·40	3	28	4	0	0
Kakabeka Falls	48	29	89	26	912					2·9		3	35·0	10	−14·0	3	30·4																		1·10	—	0·25	8	23	3	0	0
Kingston	44	13	76	29	285	30·11	30·55	29·31	1·24	18·5	+ 0·3	36	40·0	2	−16·0	1	18·1			7	13	2	21	0	3	0	17	10	9	0	62				1·47	−1·40	0·30	23	8	1	0	0
Kinmount	44	45	78	38	920					—	—	12	40·0	2	28·0	3	—																		1·05	—	0·50	6	25	0	0	0
Lucknow	43	56	81	30	908					21·9	+ 2·0	24	38·1	2	3·4	16	13·2																		2·86	−1·47	0·74	22	9	1	0	6
Lake Talon	46	15	78	48						8·5	+ 0·8	16	41·5	2	−32·5	1	19·7																		0.80	−1·56	0·40	4	27	2	0	0
London	42	59	81	13	808	30·07	30·51	29·26	1·25	25·1	+ 3·2	28	45·5	27	− 8·0	18	13·1			8	20	0	6	0	30	0	7	35	15	0	93				4·17	+0·45	0·85	19	12	0	0	2
Lakeside Home	43	40	79	24						26·6	—	6	45·0	2-11	− 1·0	16	14·2																				—	—		0	0	0
Lorne Park	43	32	79	37						25·4	—	3	45·0	2	− 6·0	4	15·9																		2·68	—	0·75	9	22	0	0	2
Lindsay	44	20	78	45	872					18·4	+ 2·9	30	40·2	2	−14·5	4	19·6			7	10	11	2	8	8	8	9	15	16	16	93				1·28	−2·75	0·27	14	17	0	0	6
Lakefield	44	25	78	15	850					19·9	+ 5·4	21	48·0	3	−11·0	4- 5	21·5																		2·30	−0·14	0·30	10	21	0	0	0
Meaford	44	37	80	37	600																																					
*Midland	44	44	79	53	750					21·5	—	3	42·0	8	−12·0	4	—																		1·30	—	0·80	3	28	0	0	0
Madoc	44	30	77	29	575					14·8	—	7	40·0	2-11	13·0	16	19·7																		2·83	—	0·82	13	18	1	0	0
Montague	44	56	75	57						11·7	—	1	42·0	2	−19·0	5	23·4																		0·85	—	0·20	8	23	1	0	0
Montreal River										3·8	—	1	41·0	25	−35·0	4- 6	29·7																		2·00	—	0·50	8	23	0	0	0
*North Bruce	44	23	81	25						24·7	+ 2·6	22	40·0	11	4·0	4	—					6	0	16	3	29	8	19	12	0	93				1·78	−1·44	0·21	19	12	1	0	3
Owen Sound	44	34	80	55	597					16·7	− 2·6	30	52·0	27	− 6·0	4	16·7					6	0	0	0	29	18	2	7	0	62				3·20	−1·23	0·60	6	25	0	0	0
Orillia	44	34	79	24	775					18·2	+ 1·9	17	43·0	2	−17·0	4	15·3					1	1	1	2	9	7	6	2	0	29				0·65	—	0·40	4	27	0	0	1
Ottawa	45	26	75	42	294	30·13	30·67	29.16	1·51	11·2	− 0·8	28	40·0	11	−17·0	18	21·7					5	6	14	2	0	8	15	12	0	62				1.78	−1·21	0·27	16	15	0	0	0
*Ottonabee	44	20	78	18	674					20·3	+ 2·0	14	40·0	2-11	−11.0	4	—					2	1	15	2	14	13	16	13	17	93				1·03	−1·17	0·28	6	25	0	0	0
Port Arthur	48	27	89	12	644	30·10	30·64	29·35	1·29	4·0	− 3·0	30	35·0	10	−30·0	3	25·3			6	8	6	6	2	4	2	4	13	21	1	62				0·56	−0·13	0·23	8	23	0	0	0
Port Stanley	42	40	81	13	592	30·16	30·62	29·36	1·26	26·4	+ 3·1	35	44·0	27	3·7	5	12·7			8	19	2	3	6	9	1	6	14	14	7	62				2·84	−0·49	0·66	22	9	0	0	10
Port Dover	42	47	80	13	635					25·7	+ 3·4	36	46·5	27	− 2·5	4	11·7					7	4	1	2	0	6	7	4	0	31				3·38	+0·01	0·62	25	6	0	0	0
Port Burwell	42	39	80	55	592					—	—	7	41·0	27	—	—	—																		—		—	—		0	0	2
Parry Sound	45	19	80	0	635	30·09	30·49	29·23	1·26	17·6	+ 2·5	35	43·0	2	−18·0	4	20·1			7	13	6	7	4	18	1	11	2	12	1	62				2·53	−1·93	0·60	13	18	0	0	1
Point Clark	44	5	81	44	595					—	—	38	40·0	11-26		—	—					20	4	7	4	41	6	9	2	0	93					—	—	—		0	0	0
Pelee Island	41	50	82	35	585					33·7	+ 9·1	24	62·5	25	12·5	29-31	8·5																		—	—		—	—	0	0	0
Paris	43	12	80	25	840					26·1	+ 4·7	22	45·0	22	− 1·0	4	14·7																		2·39	−0·44	0·70	9	22	0	0	0
Peterboro	44	17	78	19	722					17·1	+ 0·4	39	40·0	1-11	15·0	4	20·5																		0·98	−3·02	0·32	7	24	0	0	1
Ronville	45	15	78	57	1038					13·3	—	4	42·0	2	−22·0	16	19·5																		—	—	—	—	—	0	0	0
Renfrew	45	26	76	39	416					12·8	+ 2·5	21	45·0	2	−14·0	4	21·0																		1·67	+0·02	0·60	12	19	0	0	3
St. Catharines	43	9	79	17	347					27·1		1	48·0	3	1·5	4	15·8																		—		—	—	—	0	0	0
Stonecliffe (Rockliffe)	46	9	78	6	557	30·15	30·59	29·43	1·16	8·5	+ 1·7	33	40.0	2	−25·0	17-31	27·2					8	2	1	0	0	1	15	4	31	62				0·67	−1·32	0·18	11	20	0	0	0
Southampton	44	30	81	21	656	30·10	30·53	29·22	1·31	24·1	+ 2·2	34	42·0	2	2·1	3- 4	15·0			9	22	3	1	3	10	11	19	2	9	1	62				3·41	−0·53	0·55	22	9	0	0	1
*Sarnia	42	59	82	24	586					25·6	+ 0·7	16	43·0	27	2·0	4- 5	—																		0·00	−1·87	0·00	0	31	0	0	0
Stratford	43	23	81	0	1191																																					
Stony Creek	43	13	79	45	292					28·6	+ 1·1	28	46·0	27	7·0	5 16	13·4			6	10	1	2	10	7	4	27	31	11	0	93	III	VI	5 W	1·28	−1·79	0·45	6	25	0	0	2
Schreiber	48	50	87	15						1·1	1·1	10	41·2	29	31·8	15	30·3																		3·60	—	1·60	7	24	2	0	0
Shelburne	44	5	80	47						19·2		2	38·0	2	9·0	4	14·7																		0·62	—	0·20	4	27	0	0	2
Toronto	43	10	79	24	350	30·13	30·57	29·31	1·26	25·9	+ 3·0	70	44·1	2	− 1·7	16	14·2					9	5	8	2	4	14	18	2	0	62				2·08	−0·73	0·46	18	13	0	0	3
Uxbridge	44	5	79	8	886					19·7		7	40·0	2	−12·0	4-16	12·3																		2·09	—	0·36	16	15	0	0	0
Uplands	45	48	79	25						11·3	+ 3·4	21	41·0	2	−29·5	4	24·2					8	1	9	1	15	2	18	0	8	62				1·29	−2·62	0·51	7	24	0	0	0
Ursa	44	51	78	18						5·1	—	4	34·0	11	−20·0	17	15·0																		1·52		0·80	8	23	0	0	0
White River	48	35	85	16	1252	30·06	30·58	29·26	1·52	− 3·1	− 4·0	21	34·0	10 11	−48·0	6	33·4					6	1	3	6	5	4	6	8	23	62				0·28	−1·45	0·07	10	21	0	0	0
Woodstock	43	8	80	47	980	30·13	30.58	29·25	1·33	25·3	+ 0·9	36	57·0	25	− 5·0	18	16·7		83	8	18	0	5	1	11	8	32	15	21	0	93	12·6	23·0	2 SW	2·56	0·91	0·36	12	19	0	0	0
Welland	42	59	79	17	577					27·2	+ 6·2	24	45·0	2	− 5·0	4	13·4																		2·25	−1·89	0·67	16	15	0	0	0
Windsor	42	20	83	4	625																																					
Wallaceburg	42	35	82	24						26·5	—	5	47·0	27	− 4·0	3	12·3																		1·23		0·40	8	23	0	0	0
Woodford	44	35	80	47						20·2	—	1	46·0	2	− 9·0	1	16·0																				—	—	—	0	0	0
QUEBEC—																																										
Abitibi	48	43	79	22						− 4·2	− 2·5	15	32·0	11	−47·0	6	30·1			6	8	16	7	11	13	11	6	17	9	0	93	III	VII	5 NW	1·30	−0·68	0·60	5	26	1	0	0
*Anticosti, E. Point	49	6	61	42	30																																					
*Anticosti, W. Point	49	52	64	32	30																																					
Brome	45	10	72	36	678					13·9	+ 1·4	30	44·0	2	−26·0	18	17·4					8	2	1	2	21	11	39	0	6	93				0·65	−1·48	0·40	4	27	0	0	2
*Bicquet	48	25	68	53																																						
Clarke City	50	10	66	25						1·6	—	5	29·0	3	−36·0	18 12	22·5					1	2	1	0	0	3	7	11	0	31				4·40	—	0·70	15	16	0	0	0
*Cape Chatte	49	6	66	45						9·6	1·9	22	34·0	3- 4	−17·0	18	—					1	9	7	1	3	2	41	12	14	93				3·11	—	1·01	8	23	0	0	0
*Cape Magdalen	49	16	65	20	93					9·7	− 1·4	22	38·0	3	15·0	16 17	—																		3·61	—	1·00	9	22	0	0	0
Chicoutimi	48	25	71	5	150					—	—	33	—	—	—		—			6	7	0	0	0	17	0	35	0	11	0	93	IV	IX	—	1·03	—	0·22	10	21	3	0	5
Disraeli	45	55	71	21	896					12·8	—	1	43·0	2	−29·0	18	23·1																		2·10	—	0·70	6	25	0	0	0
Father Point	48	31	68	19	20	29·98	30·61	28·88	1·73	9·4	+ 0·6		41·0	3	−17·0	17	22·3			7	9	7	1	5	1	9	10	8	18	3	62				2·99	—	0·60	14	17	0	0	0
Lake Edward	47	39	72	15	1333					− 1·8	—	1	38·5	3	−38·0	18	31·9																		1·90	—	0·30	10	21	0	0	0
Montreal	45	30	73	35	187	30·11	30·64	29·01	1·63	12·7	+ 0·5	36	42·7	2- 3	−12·0	16	19·8			6	7	10	2	1	9	10	19	9	2	0	62				2·12	−1·63	0·33	17	14	1	0	0
Quebec	46	48	71	13	296	30.07	30·63	28·92	1·71	8·5	− 1·6	36	40·6	3	−20·0	17	21·1			6	13	1	14	1	1	0	18	19	5	0	62				3·46	+0·26	0·64	12	19	0	1	1
*Roberval	48	31	72	13	352																																					
St. Anne de Bellevue	45	27	73	59						10·6	—	5	44·6	2	−22.0	5	16·6																		0·23	—	0·21	3	28	0	0	0
Shawinigan Falls	46	34	72	43						2·2	—	8	37·0	22	−32·0	18	21·9																		—	—	—	—	—	0	0	0
Sherbrooke	45	32	72	5	620					12·0	—	8	46·7	3	−20·5	18	26·3																		1·84	—	0·41	22	9	0	0	0
Shawbridge	45	54	74	3																																						

PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA. JANUARY, 1911.

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

STATION.	Latitude N.	Longitude W.	Elevation above sea level, in feet.	PRESSURE. Mean reduced.	Highest.	Lowest.	Range.	TEMPERATURE. Mean.	Difference from average.	Years observed.	Highest.	Date.	Lowest.	Date.	Mean daily range.	Mean temperature of dewpoint.	Mean relative humidity.	Mean amount of cloud.	No. of days completely clouded.	DIRECTION OF WIND FROM. N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.	Total number of observations.	VELOCITY OF WIND. Mean miles per hour.	Highest day's velocity.	Date and direction from	PRECIPITATION. Amount.	Difference from average.	Heaviest fall in month.	Days with .01 or more.	No. of fair days.	No. of auroras.	No. of thunder storms	No. of fogs.
NEW BRUNSWICK—																																								
Bathurst	47 39	65 42	45					12·4	+ 1·0	36	46·0	3	−24·0	18	23·0			5	4	0	0	11	0	0	14	21	11	0	62				3·48	−0·10	0·56	17	11	0	6	0
Chatham	47 3	65 29	21	30·01	30·63	28·83	1·80	12·4	+ 1·0	36	46·0	3	−24·0	18	23·0			5	4	0	0	11	0	0	14	21	11	0	62				3·48	−0·10	0·56	17	11	0	6	0
Dalhousie	48 4	66 22	39					—	—	30	32·0	10	−19·0	17	23·19·0					0	0	4	2	1	1	23	0	0	31				3·10	+0·28	0·90	6	25	0	0	0
Fredericton	45 57	66 36	164					18·2	+ 5·5	39	46·5	24 25	−15·0	18	17·8		87	6	8	5	3	6	3	4	5	23	41	3	93				1·68	+1·11	1·50	10	21	0	0	0
Grand Manan	44 47	66 46	49	30·06	30·59	28·91	1·68	24·8	+ 1·3	26	51·7	4	9·0	17	19·0					6	12	3	3	3	15	6	14	0	62	9·0	22·7	16 NW	1·06	+1·11	1·50	10	21	0	0	0
Moncton	46 9	64 45	50					15·6	+ 0·2	11	51·0	2 3	−20·0	17	20·8					0	6	4	2	0	17	0	0	0	31				2·45	+0·30	0·80	11	20	1	0	2
*Point Lepreaux	45 4	66 28	30					22·8	+ 2·8	33	46·0	3	−10·0	17 18						0	6	4	2	0	17	0	0	0	31				2·60	+0·52	0·72	7	24	0	0	0
St. John	45 17	66 4	70	30·05	30·63	28·87	1·76	21·4	+ 1·7	38	47·0	2 3	14·0	17	20·5			6	11	5	7	2	3	8	8	2	26	1	62	IV	V		3·30	+1·14	1·60	8	23	0	0	1
St. Stephen	45 11	67 16	35					17·1	+ 1·3	14	50·0	2	−23·0	18	20·7																		3·29	+1·25	0·58	17	14	0	0	2
Sussex	45 38	65 38	60					19·3	+ 4·3	14	50·0	2 4	−18·0	17 18	20·4					1	1	0	1	0	5	2	7	14	31				3·25	+1·30	0·60	6	25	0	0	0
NOVA SCOTIA—																																								
Antigonish	45 38	61 59	50					20·6	—	1	57·0	4	−20·0	18	20·7																		0·85	—	0·85	1	30	0	0	0
Halifax	44 39	63 36	88	30·03	30·65	28·90	1·75	21·3	+ 0·2	36	52·0	1	10·8	18	18·7					6	11	3	1	2	5	13	16	0	62				6·39	+0·84	1·16	21	10	0	0	0
Port Hastings	45 39	61 22	45							20	51·0	4	11·0	18						0	4	0	4	1	5	0	17	0	31				3·06	−1·13	0·90	7	24	0	0	0
Parrsboro'	45 23	64 19	40					20·4	+ 1·3	15	50·0	3	−14·0	16 17	21·1																			—	—					0	0
Sydney	46 10	60 10	35	29·98	30·62	28·81	1·81	23·9	+ 1·8	37	51·0	4	2·4	19	17·6			8	17	2	1	1	6	4	8	11	23	3	62				5·97	+0·79	1·10	14	17	0	0	0
*Sable Island, E. Point	43 58	59 46	75					33·6		26	49·0	3 9	4·0	17						0	11	0	12	2	25	0	30	0	93				5·45	+1·36	1·50	8	23	0	0	0
Truro	45 22	63 18	225					20·6	+ 1·3	36	53·8	4	17·0	21	22·5			7	9	9	4	10	5	3	24	11	23	1	93				1·25	+0·16	0·75	18	13	1	0	2
Windsor	44 59	64 6	100					22·1	− 1·5	34	57·0	4	14·0	17	17·3																		2·77	−0·10	0·70	13	18	0	0	0
*Whitehead	45 15	61 8	20					23·4	+ 1·2	27	43·0	2	7·0	18						8	5	9	5	1	18	18	26	0	93				4·68	+1·01	0·75	8	23	0	0	3
*aWolfville	45 7	64 20		29·97	30·55	28·83	1·72	23·4	+ 1·1	30	50·6	4	−11·0	17	19·7					4	2	2	3	5	8	11	17	2	62				2·58	−1·36	0·90	15	16	0	0	0
Yarmouth	43 50	66 2	65	30·07	30·61	29·05	0·59	26·9	+ 0·3	30	50·3	4	0·0	17	17·1					14	2	1	6	6	9	3	12	3	62				4·20	−0·56	0·65	20	10	0	0	3
P. E. ISLAND—																																							
Charlottetown	46 14	63 10	38	30·00	30·62	28·81	1·78	19·2	+ 0·6	35	47·3	4	11·0	18	18·7					1	3	1	7	5	11	17	11	3	62				3·01	−0·40	0·60	14	17	0	0	0
Charlottetown (2)	46 14	63 7	75					18·2		1	49·5	4	−15·0	18	18·5																		3·81	—	0·92	13	18	0	0	0
Hamilton	46 25	63 48						18·0	+ 0·7	13	50·0	3	−14·0	18	12·9					0	1	0	2	3	6	9	8	0	31				2·83	—	1·00	7	24	0	0	0
NEWFOUNDLAND—																																							
*Amour Point	51 28	56 51																		7	5	1	5	6	11	9	16	0	62				3·98	—	0·75	14	17	0	0	0
Burin	47 0	55 10	27	29·95	30·55	28·93	1·62	23·6	—	2	50·0	1	−4·0	27	20·2																								
*Cape Norman	51 38	55 52																																					
Fogo	49 43	54 17	30	29·87	30·44	28·74	1·70	16·4	—	1	46·0	4	−10·0	17	14·2					6	3	1	4	4	9	15	20	0	62				6·17	—	1·60	19	12	0	0	0
*Point Rich	50 42	57 25	35					12·5	− 0·2	25	32·0	31	−13·0	17						21	6	2	3	11	16	12	19	0	93				2·10	−0·76	0·40	11	20	0	0	6
Port aux Basque	47 35	59 10	27	29·92	30·53	28·84	1·69	20·3	—	2	43·5	3 4	−5·5	17	15·6					6	2	7	2	1	11	6	24	0	93				8·51	—	1·13	25	4	0	0	2
St. John's	47 34	52 42	125	29·85	30·47	28·80	1·67	22·1	− 2·1	38	57·0	4	−10·0	17	14·9			7	6	6	2	1	6	7	13	11	16	0	62				5·18	−1·11	1·04	17	11	0	0	0
BERMUDA—																																							
Prospect	32 17	64 30	151	30·31	30·63	29·87	0·76	69·9	− 1·6	20	72·0	23	47·4	17	10·4					11	5	6	2	14	1	17	3	3	62				1·78	3·12	0·48	12	19	0	1	0

PRECIPITATION AT STATIONS REPORTING RAIN, SNOW, WEATHER, &c., DURING JANUARY, 1911.

STATIONS.	RAINFALL.					SNOWFALL.				REMARKS.
	Amount in inches	No. of Days '01 or over	No. of Fair Days	Heaviest Fall in Month	Date	Amount in inches	No. of Days.	Heaviest Fall in Month	Date.	
	in.			in.		in.		in.		
BRITISH COLUMBIA—						8·7	11	4·0	9	
Alkali						33·0	22	4·1	15	Thunderstorm on 25.
Alberni						16·5	7	6·0	27	
Annis	0·27	3	28	0·13	6-7	29·0	19	13·8	26	
Beaver Lake	3·80	12	19	0·65	18	12·4	8	4·8		
Bear Creek	5·13	9	22	1·48	8					
Coquitlam	6·21	8	23	1·55	8	92·5	15	12·0	18	
Denman's Island	5·31	9	22	1·21	8-16	36·0	16	7·5	25	
Ferguson						14·9	11	3·3	17	
Goldstream Lake	4·78	17	14	1·22	9					
Grand Forks						3·0	3	1·0	24-26	
Hornby Island										
Jordan River	10·77	21	10	1·14	9	2·8	5	9·0	12-27	Fog on 5.
LittleQualicum(French Creek, V.I.)	4·58	5	26	1·50	16	4·3	6	1·5	9	
Monte Creek						38·0	11	19·0	28	
Naas Harbour	4·75	3	28	2·30	1	43·6	18	10·4	14	
Skidegate	2·82	7	24	1·61	4	37·5	12	8·5	6	
Swift River Dam										
ALBERTA—						3·3	6	1·0	9-18	
Bardo						3·9	3	2·7	9	
Bismark						6·6	3	3·0	19	
Bruederheim						7·5	6	2·0	10-26	
Bittern Lake										
Bantry						3·5	7	1·5	8	
Brooks										
Conjuring Creek										Aurora on 1, 2; fog on 13.
Coutts						10·7	9	4·5	5	
Campsie						35·7	11	16·0	9	
Caldwell						20·0	8	4·0	5-23	
Dorenlee										
Elkwater						5·0	1	2·0	9	
Grassy Lake						7·5	4	5·5	10	
Jumping Pound										
Kimball						T	1	T	2	
Lacombe										
Langden						5·8	6	2·5	9	Aurora on 4, 29.
Loch Sloy						1·2	2	1·0	11	
Lineham						10·7	1	5·1	10	
Lyndon						1·8	3	1·0	9	
Many Berries Ranch						16·0	8	6·0	9	
Macleod						25·5	8	12·3	9	
Maycroft						1·8	1	1·8	9	
Okotoks						8·5	4	3·0	5-26	
Ponoka						8·5	5	2·8	20	
Seven Persons						20·0	18	4·0	19	Aurora on 6, 17, 23, 24, 25, 26, 27, 28, 29.
Sion						30·4	4	15·0	18	
Tilley										
Wabamun										
SASKATCHEWAN—						16·7	6	4·5	11	
Carmichael						9·5	7	3·3	10-31	
Coulee										
Elm How						13·0	7	4·0	9	
Gull Lake										
Hanley										
Last Mountain						8·3	7	3·0	9	
Maple Creek						15·4	15	3·0	25	
Kindersley						5·0	3	2·0	19-31	
Kelvinhurst						6·0	3	3·0	31	
Willow Creek										
MANITOBA—						16·5	9	6·0	31	Aurora on 24, 27.
Cartwright						12·5	9	2·5	7-9	Aurora on 21.
Deloraine						10·4	5	4·0	4	
Gretna						4·5	4	2·5	8	
Norquay						13·7	9	8·3	10	
Rapid City										
										Fog on 11, 12, 13, 14.
ONTARIO—						1·0	1	1·0	25	
Arden	2·15	4				1·3	3	3·5	6	
Deer Park	1·01	5				4·0	1	4·0	5	
Dutton	0·50					7·5	6	2·5	9	
Emsdale	0·38					6·0	1	2·5	6	Fog on 1, 11, 25, 26, 27; aurora on 24.
Georgetown	0·86	6				5·6	4	3·5	4	
Grantham	0·59									Fog on 25, 28.
Grand Valley	0·50	2				22·0	8	12·0	16	
Goderich	0·15	1				12·0	6	3·0	10	
MacCue	0·71	3				11·9	10	2·1	9	
Orangeville	2·71	4				8·0	2	6·0	7	
Princeton	2·95	4				11·0	4	4·0	2	
Sydenham	1·62	4				9·5	4	5·0	6	
Strathroy	1·11	2						—	—	
Watford	0·58	2				6·9	6	1·0	3	Fog on 2.
Westport	1·54	5				6·0	2	3·0	3-7	Fog on 2, 13.
Wooler	1·95	5				13·0	4	5·0	17	Fog on 27.
Westminster	1·16	6				9·3	5	3·6	16	Fog on 26, 27.
Wiarton	0·54	9				11·0	13	2·0	9 30	Fog on 1, 2, 13, 14, 20, 26, 27, 29.
Wesley										
QUEBEC—										
Timiskaming										
Kipawa										Fog on 3.
NEW BRUNSWICK—						20·6	6	4·8	28	
Point Escuminac	0·24	2	29	0·13	3					

MEAN PROPORTION OF BRIGHT SUNSHINE REGISTERED IN EACH HOUR OF THE DAY IN THE MONTH OF JANUARY, 1911.

STATIONS.	Hours Ending																							
	6 a. m.	7 a. m.	8 a. m.	9 a. m.	10 a. m.	11 a. m.	Noon.	1 p. m.	2 p. m.	3 p. m.	4 p. m.	5 p. m.	6 p. m.	7 p. m.	8 p. m.	9 p. m.								
Victoria				·09	·19	·19	·15	·19	·12	·09	·06													
Nanaimo				T	·08	·15	·15	·13	·16	·06	·05													
Vancouver				·03	·05	·10	·11	·15	·07	·03	·03													
Agassiz					·01	·10	·09	·08	·05	·02	..													
Dunvegan			..	·02	·08	·18	·39	·39	·35	·20	·02													
Summerland			·01	·16	·22	·27	·31	·30	·31	·17	..													
Kamloops				·02	·08	·20	·34	·37	·37	·24	..													
Edmonton				·02	·21	·38	·42	·37	·32	·37	·10													
Lethbridge			·03	·28	·43	·47	·32	·48	·51	·55	·39	·01												
Lacombe				·09	·22	·24	·31	·34	·40	·31	·20	·02												
Medicine Hat																								
Fort Vermilion				·01	·30	·42	·52	·52	·42	·13														
Battleford				·05	·30	·38	·37	·39	·29	·14														
Indian Head				·08	·32	·34	·36	·35	·39	·41	·09													
Moosejaw			·03	·14	·31	·35	·50	·52	·51	·48	·35	·01												
Rosthern				·20	·47	·46	·46	·44	·48	·46	·25	T												
Brandon			·11	·34	·34	·38	·42	·47	·48	·27	·08													
Winnipeg				·08	·24	·41	·44	·38	·30	·30	·28	·03												
Haileybury			·01	·16	·37	·46	·45	·50	·47	·46	·41	·05												
Woodstock			·01	·08	·22	·27	·29	·31	·35	·25	·21	·04												
Lindsay				·08	·26	·31	·34	·34	·38	·33	·15	·01												
Barrie			·01	·15	·19	·26	·30	·28	·28	·26	·09													
Toronto				·12	·22	·32	·31	·37	·31	·30	·32	·04												
Kingston		·04	·14	·30	·37	·37	·37	·41	·41	·10	·23	·08												
Ottawa			·05	·27	·33	·41	·45	·37	·43	·43	·37	·07												
Montreal				·01	·17	·30	·31	·36	·35	·29	·09													
Quebec			·04	·23	·31	·34	·38	·38	·40	·43	·33	·03												
Sherbrooke			·01	·18	·30	·40	·42	·42	·37	·42	·25	·03												
Fredericton			·08	·31	·40	·47	·45	·45	·41	·41	·38	·09												
Charlottetown			·10	·27	·33	·33	·40	·42	·45	·39	·29	·07												

—	Victoria.	Nanaimo.	Vancouver.	Agassiz	Dunvegan.	Summerland.	Kamloops.	Edmonton.	Lethbridge.	Lacombe.	Medicine Hat.	Ft. Vermillion.	Battleford.	Indian Head.	Moosejaw	Rosthern.	Brandon.	Winnipeg.	Haileybury.	Woodstock.	Lindsay.	Barrie.	Toronto.	Kingston.	Ottawa	Montreal.	Quebec.	Sherbrooke.	Fredericton.	Charlottetwn.		
Registered duration in hours.	33	21	14	12	18	51	50	46	102	69		72	59	73	99	100	91	82	103	63	68	76	72	96	98	58	89	88	108	95		
Percentage of possible duration %	12	8	5	4	22	20	19	26	38	27		33	23	28	37	39	31	31	37	22	24	26	27	34	35	21	32	31	38	34		
Difference from average %	−8	..	..	−11	..	..	..	..	..	..		..	−10	−1	..	..	+9	+5	..	+1	−2	+6	−2	+7	+3	−10	..	..	0	..	..	..
Maximum percentage in one day %	67	51	51	17	77	56	62	83	91	90		74	74	78	95	96	94	90	93	84	71	81	87	91	95	82	93	97	95	92		
Date of maximum	20	9	28	29	27	17	24	1	16	14		14	1	27	29	1	17	28	16	5	4	5	26	17	22	12	22	31	25	6	..	..
No. of days completely clouded	16	21	23	25	12	14	14	15	6	5	..	12	5	10	1	4	12	15	9	16	19	12	16	11	9	13	13	8	9	13	..	..

Aurora recorded :—

Where the class of aurora is noted by the observer, it is given, (I), being the brightest, (IV) the feeblest in brilliancy.

1. Aitkensville, IV; Threehills Creek, II; Waitefield, IV; Oliver, Melfort, IV; Estevan, III; Crescent Lake, III; Campsie, IV.

2. Aweme, II; Kenora, IV; Aitkensville, III; Kakabeka Falls, IV; Waitefield, IV; Crescent Lake, IV; Grenfell, II; Campsie, IV.

3. Bruce Mines, III; Aitkensville, IV; Threehills Creek, IV; Chicoutimi, Stanley, IV.

4. Loch Sloy, Kenora, III; Aitkensville, IV; Waitefield, IV; Haileybury, III; Minnedosa, III.

5. Kenora, IV; Schreiber, IV; Haileybury, III.

6. Sion, III; Three Hills Creek, IV.

8. Glenbryan, II.

10. Aitkensville, IV; Waitefield, III; Melfort, IV.

14. Grenfell, IV.

16. Chicoutimi.

17. Sion, III.

18. Aitkensville, IV.

20. Aweme, III; Aitkensville, IV.

21. Aitkensville, IV; Oliver, Melfort, IV.

22. Aitkensville, IV; Kakabeka Falls, III; Pembina, Yarbo, III.

23. Aweme, IV; Aitkensville, IV; Sion, IV; Yarbo, IV; Glenbryan, I.

24. Cartwright, Deloraine, Georgetown, Aweme, II; Lucknow, III; Schreiber, IV; Lake Talon, IV; Montague, Sion, IV; North Bruce, III; Gravenhurst, II; Kingston, III; Montreal, III; Chaplin, IV; Brownlee, Glenbryan, II.

25. Hillsdown, IV; Sion, IV; Threehills Creek, IV; Grand Manan, IV; Oliver.

26. Pembina, Sion, II; Threehills Creek, II; Waitefield, III; Meota, IV; Crescent Lake, IV.

27. Cartwright, Aweme, IV; Kakabeka Falls, III; Pakan, Pembina, Sion, III; Threehills Creek, IV; Meota, IV; Crescent Lake, IV; Chaplin, II.

28. Lake Talon, IV; Pakan, Pembina, Sion, II; Threehills Creek, III; Waitefield, II; Yarbo, IV.

29. Loch Sloy, Aitkensville, IV; Pembina, Sion, III; Waitefield, IV; Meota, II.

30. Kenora, IV; Bruce Mines, IV; Madoc, III; Aitkensville, IV; Pembina, Abitibi, Gravenhurst, III; Haileybury, II; Crescent Lake, IV; Chaplin, IV; Brownlee.

31. Aitkensville, IV; Chicoutimi.

Thunder recorded :

7. Vernon, Enderby.

21. Quebec.

FORECASTS FOR JANUARY, 1911.

The forecasts issued by this office at 11 p.m. each night are posted up at every telegraph station in Canada, and are for the 24 hours beginning at 8 a.m. the following day.

The number of these predictions issued during the month was 1153. These were divided as follows :—

District.	No. Issued.	Verified.			
		No. Fully	No. Partly	No. Not	Percentage.
Alberta	77	57	17	3	85 1
Saskatchewan	80	60	17	3	85 6
Manitoba	78	58	14	6	83 3
Lake Superior	87	71	15	1	90 2
Lower Lake Region	104	81	16	1	88 5
Georgian Bay	104	85	19	0	90 9
Ottawa Valley	96	68	21	7	81 8
Upper St. Lawrence	90	71	19	5	84 7
Lower St. Lawrence	92	77	14	1	89 7
Gulf	99	83	15	1	91 4
Maritime Provinces West	121	98	13	10	86 1
Maritime Provinces East	120	93	18	9	85 0
Total	1153	902	195	53	86 9

In order to obtain the percentage of verification of the predictions, the number partly verified is divided by two and added to the number fully verified, and the result divided by the total number issued.

In ascertaining to what extent the predictions have been verified, the reports from the agents at all observing stations, as well as the telegraphic reports, are used.

R. F. STUPART, Director.

Meteorological Office, Toronto,
February 28, 1911.

DEPARTMENT OF MARINE AND FISHERIES, CANADA 1911

METEOROLOGICAL SERVICE.

Monthly Weather Review.

VOL. XXXV. FEBRUARY, 1911. No. 2.

INTRODUCTION.

In compiling the present Review the principal data made use of are the telegraphic reports of observations received at this office for the purpose of weather forecasting, and reports by mail from voluntary observers and storm signal agents. For the data used in tracing the paths of areas of high and low pressure in the United States, we are indebted to the Chief of the Weather Bureau, Washington, D.C.

GENERAL SYNOPSIS.

In western and southern Ontario, Manitoba, the greater part of Saskatchewan, the northern portion of Alberta, and in the Yukon, the weather of February was warmer than usual. In the Maritime Provinces and British Columbia, however, there were very few mild days, and the average of the month was between 3° and 8° below normal.

Rain fell frequently in southwestern British Columbia, and snow on many days in the north and on the higher levels, yet the total precipitation of the month was much less than is usual for February in that province. The number of hours of bright sunshine exceeded the average of the preceding 20 years. Except in the northern districts the daily range of temperature was not great, while in the south 40° was seldom reached except on Vancouver Island and the extreme southwestern mainland. The greatest difference from normal temperature occurred in the central-southern districts, where the mean of the month was 7° or 8° below the 20-year average. In the far northern portion of the province, however, conditions were reversed and the average of the month was 4° or 5° warmer than usual, and this is true of the Yukon also, the mean temperature of Dawson exceeding the normal by 7°.

The usual number of mild days did not occur during February in southwestern Alberta, while in the more northern portion of the province there were few days of bitterly cold weather, such as frequently happen in February. Consequently the southern portion reported mean temperatures below normal by from 1° to 3°, while in the north the normal was exceeded by about the same amount. In the southwestern districts the total precipitation was more than average by a small amount, while in the more northern portions there was a deficiency to about the same extent. The coldest periods were the first two days and the 26th and 27th. From the 10th to the 12th and again on the 23rd and 24th the highest temperatures, ranging between 52° and 57°, occurred at Edmonton and the stations in approximately the same latitude, or even further north, Lunnford reporting 57° and Peace River Crossing 50°. It is worthy of note that these temperatures were higher than any registered in Quebec or the greater portion of the Maritime Provinces during the month.

Colder conditions than are usual for February obtained in southwestern Saskatchewan, but the mean temperature increased to the north and east, exceeding the normal by 1° to 4° in that portion of the province. Except in the vicinity of Indian Head the snowfall of the month was less than the normal by a small amount, occurring on from two to seven days. The warmest period was that between the 23rd and 26th, but generally the temperatures were not so high as they were during the corresponding mild interval in Alberta.

Much warmer weather than generally obtains in February was experienced in Manitoba, but while the excess over normal mean temperature was scarcely 3° in western Manitoba, in the eastern portion of the province it was between 7° and 8°. The first three days of the month were very cold, temperatures not rising to zero. From the 10th to 25th, however, the day temperatures were fairly high. On the 1st, 2nd, 5th, 6th, 8th, 13th and 17th snow fell, aggregating about 8 inches in most districts. Those places where the normal precipitation was exceeded lie in the western portion of the province.

The greater part of Ontario reported mean temperatures considerably above the normal. Th widest departures from normal occurred on the western shore of Lake Superior, in the Thunder Ba and Rainy River districts. In Algoma and southern Ontario, with the exception of the extreme south western counties of the Peninsula, this excess over average existed to a much less degree. In th eastern counties the temperature was average or a little less. Precipitation was in excess of th average amount in the Thunder Bay, Rainy River and Algoma districts, and in the Ottawa Valley, a well as locally in the central-southern counties. Temperatures of 45° to 55° were registered on th 17th and 25th.

Over Quebec and the Maritime Provinces the temperature of the month was lower than th February average, the deficiency ranging from 2° at Montreal to 7° in central Nova Scotia. It wa much below zero on many days, while 45° was not exceeded except at a very few stations. At Mon treal there was a small excess of precipitation, but elsewhere much less than the average quantity wa reported.

ATMOSPHERIC PRESSURE.

Anti-cyclonic formations were of frequent occurrence in February, and the mean atmospher pressure exceeded the average in all parts of Canada by about 0·05 of an inch. In Saskatchewan Manitoba and from Eastern Ontario to New Brunswick, inclusive, the departures from normal wer from 0·07 to 0·10 of an inch.

HIGH AREAS.

Eight areas of high pressure occurred during the month, six first appearing in the vicinity of th Yukon Territory and two in the Pacific States. Three of the systems carried their centres far to th northward of the Great Lakes, one passed across the Great Lakes and four passed far to the southwar of the Great Lakes. The systems conformed to the usual important winter type of anticyclones, the accompanying cold waves being generally severe and widely experienced.

LOW AREAS.

Eleven areas of low pressure were charted; six first appeared on the far northern British Co umbian or Alaskan coasts, two on the West Pacific States Coast, one in the South Pacific States, or in Southern Texas, and one off the South Atlantic States coast. Eight of the areas passed over th Great Lakes and the remaining three to the southward of them, thence either over or close to th Maritime Provinces and Newfoundland. The areas were often of much energy, causing numerou high winds and gales in their transit, some of the latter being heavier on our Pacific and Atlant coasts and over Newfoundland than elsewhere in the Dominion.

WINDS, FEBRUARY, 1911.

PROVINCE AND STATIONS.	Total Mileage.	Greatest Mileage in 24 hours.	Greatest Mileage in one hour.	Number of Gales.	Number of Strong Winds.	Number of Fresh Winds.	GENERAL DIRECTION.
BRITISH COLUMBIA.							
Victoria	5195	701					Variable.
Triangle Island							
Prince Rupert	3967	235	22	0	3	6	
Kamloops	2177	219	18	0	1	3	
ALBERTA.							
Sulphur Mt., Banff	1520	102	20	6	7	7	Southwest and West.
Calgary	2212	218	17	0	1	6	Variable.
Edmonton	2745	222	19	0	1	5	
SASKATCHEWAN.							
Battleford	1819	915	57	1	1	9	South and West.
Swift Current	6525	393	32	2	11	7	
Qu'Appelle	1871	330	22	0	5	9	
MANITOBA.							
Winnipeg	21 days 6111	172	30	1	9	6	North and West.
The Pas	1768	149	27	0	5	8	
ONTARIO.							
Port Arthur	8552	180	33	1	9	11	Northwest to Northeast.
Parry Sound	6321	372	23	0	5	14	
Woodstock	3479	511	30	1	13	8	
Toronto	11407	905	19	7	7	5	
Kingston	3783	396	14	0	0	7	
QUEBEC.							
Montreal	10188	671	12	3	13	7	Variable.
Quebec	9181	707	17	5	11	4	N. E., W. S.W.
Father Point							
MARITIME PROVINCES.							
Fredericton	6826	514					N.W., S.W.
St. John	9847	713	39	5	6	11	N.W., S.W.
Pt. Le Preaux	11670	791	50	7	5	7	N., W.
Halifax	8825	455	38	4	12	7	N.E., N.W.
Flat Pt	10865	626	39	6	8	7	N., W
Charlottetown	5780	374	37	3	2	12	N., W.

TEMPERATURE.

In central-southern British Columbia and central Nova Scotia, the mean temperature was 7° below normal. From both coasts the temperature increased inland, rising above normal in Saskatchewan, Manitoba and Ontario and reaching the maximum excess over normal of 9° at Port Arthur. There was also a northward increase from British Columbia to the Yukon, where there was an excess of 7°.

The highest and lowest temperatures recorded in each Province during the month of February, 1911, were:

	HIGHEST.	LOWEST.
British Columbia,	60° at Alberni on the 28th.	—38° at Chilcotin on the 2nd.
Alberta,	62° at Macleod on the 13th.	—55° at Athabasca Landing on the 2nd.
Saskatchewan,	55 at Onion Lake on the 26th.	—42° at Lloydminster on the 2nd, Onion Lake on 2nd and 3rd, File Hills on 3rd, The Pas on the 4th.
Manitoba,	39° at Almasippi and Morden on the 24th, Stony Mountain on the 25th.	—41° at Moose Horn Bay on the5th.
Ontario,	58° at Lakefield on the 26th.	—42° at White River and Kakabeka Falls on the 5th.
Quebec,	46° at Ste. Anne de Bellevue on the 26th.	—44° at Lake Edward on the 1st.
New Brunswick,	57° at Sussex on the 24th.	—28° at Dalhousie on the 6th.
Nova Scotia,	48° at Antigonish on the 28th.	—18° at Truro on the 13th.
P. E. Island,	40° at Charlottetown on the 1st and Hamilton on the 14th.	—11° at Charlottetown on the 13th.

PRECIPITATION.

Precipitation was in excess of normal in southwestern Alberta, locally in eastern Saskatchewan and western Manitoba, in the Thunder Bay, Rainy River and Algoma districts, the Ottawa Valley and locally in the central-southern counties of Ontario and the southwestern portion of Quebec.

DEPTH OF SNOW.

At the close of the month the ground was snow covered throughout Canada except on the coast and lower levels of British Columbia, and in the Peninsula of Ontario. In northern Ontario and Quebec there was about five feet of snow. In the Maritime Provinces a depth of two inches at Halifax increased to about three feet in northern New Brunswick. A large amount of snow lay on the higher levels of British Columbia, while in the Western Provinces a depth of from three to nine inches in Alberta increased to ten and twenty inches in Manitoba.

THICKNESS OF ICE.

The thickness of ice as reported at the end of the month was as follows:—

Western Provinces.—Battleford, 25 inches, The Pas, 21·5; Medicine Hat, 30; Swift Current, 37; Moose Jaw, 30; Qu'Appelle, 18; Minnedosa, 30.

Ontario.—Port Arthur, 22 inches; Southampton, 10; Port Stanley, 24; Kingston, 25·5; Toronto, 18; Barrie, 22; Ottawa, 30.

Maritime Provinces.—Chatham, 18 inches; Fredericton, 27; Yarmouth, 16; Sydney, 30; Charlottetown, 25; Point Le Preaux, 18.

BRIGHT SUNSHINE.

The duration of bright sunshine was less than is normal for February in eastern Manitoba and Ontario, but elsewhere in the Dominion was in excess of average.

PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA, FEBRUARY, 1911.

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

STATION.	Latitude N.	Longitude W.	Elevation above sea level, in feet.	Pressure: Mean reduced.	Pressure: Highest.	Pressure: Lowest.	Pressure: Range.	Temperature: Mean.	Temperature: Difference from average.	Temperature: Years observ'n.	Temperature: Highest.	Temperature: Date.	Temperature: Lowest.	Temperature: Date.	Temperature: Mean daily range.
BRITISH COLUMBIA—				in.	in.	in.	in.								
Alberni (Beaver Creek)	49 15	121 49	300	...	...	...	...	35·5	2·2	15	60·0	28	9·0	2	11·1
Agassiz	49 11	121 31	52	...	...	...	...	35·2	− 2·4	19	53·0	28	16·0	2	14·5
Atlin	59 35	133 38	2240	30·05	31·06	29·13	1·93	10·3	—	5	39·5	19	−36·0	1	14·6
Barkerville	53 2	121 35	1180	30·03	30·67	29·21	1·46	15·8	− 3·7	21	37·0	23	−29·0	2	15·5
Bella Coola	52 10	126 51	150	...	...	...	...	28·7	− 0·4	12	52·0	28	− 2·0	2	20·4
Babine Lake	55 38	126 26	...	...	...	...	...	12·2	—	3	39·0	21	−30·0	2	27·2
Chilcotin (Big Creek)	51 40	123 0	3100	...	...	...	...	11·9	—	7	44·0	28	−38·0	2	30·1
Cranbrook	49 30	115 50		...	...	...	...	20·1		7	39·0	9	−11·0	27	26·7
Clayoquot	49 11	125 17	10					37·7	− 2·7	11	51·0	28	21·5	2	14·5
Cowichan (Tzouhalem)	48 25	123 42	170	...	...	...	...	37·6	—	5	50·2	28	22·0	2	12·6
Chilliwack	49 10	121 57	21	...	...	...	...	33·6	4·4	10	54·0	28	5·0	2	11·3
Enderby	50 32	119 7	1180					20·7	− 1·3	10	43·0	13	− 7·0	1 26	25·2
Fort St. James (Stuart's Lake)	54 28	124 12	2280					12·2	1·8	16	40·0	21	−37·5	2	25·4
Fairview	49 11	119 36						22·5	—	2	38·0	27	3·0	2	16·6
Fruitvale	49 9	117 31	...	...	...	...	...	22·4		2	40·0	20	9·0	27	21·5
Fort St. John	56 12	120 50	1460	...	...	...	...	3·1		1	49·0	23	−50·0	1	36·0
Glacier	51 14	117 29	1072	...	...	...	...	16·2	− 1·8	10	30·0	10 12	− 6·0	2 3	12·3
Golden	51 16	116 55	2580					13·1	—	8	37·0	11	−13·0	19	28·3
Holberg	50 39	128 18						33·8	—	2	43·7	27	17·6	2	6·4
Hedley	49 35	120 10						27·5		7	44·0	22	8·0	1	18·6
Hedley (Nickel Plate)								12·8		8	27·0	23	3·0	13	32·6
Hope	49 23	121 25						27·3	—	1	49·0	29	− 1·0	2	11·5
Ikeda Bay	52 17	131 7						—	—	3	43·0	27	—	—	
Kamloops	50 41	120 29	1245	30·11	30·71	29·21	1·50	22·7	− 5·1	19	44·5	30	−15·3	2	16·3
Ladner	49 5	123 1						37·8	0·9	11	49·0	25 28	10·0	2	13·0
Massett, Q.C.I.	53 58	132 9	30					35·7	1·1	14	46·0	23 28	12·	1	9·5
*a*Nanaimo	49 10	123 37	125	29·94	30·53	28·87	1·66	37·6	0·7	10	48·5	28	19·0	2	13·1
Nicola Lake	50 9	120 30	2120					18·9	− 1·8	16	4[illegible]·0	12	−27·0	2	18·9
North Nicomen	49 12	122 2	50					35·3	− 4·4	19	52·0	28	5·0	2	12·1
New Westminster	49 13	122 54	330					35·3	2·8	24	48·9	28	12·8	2	9·8
Nelson	49 29	117 21	1760												
Needles								21·3	—	2	39·0	13	0·0	27	18·2
Okanagan Mission (Kelowna)	49 52	119 29	1200					21·1	− 1·7	11	39·0	13	−17·0	2	19·2
Princeton	49 29	120 29	1650					17·8	− 5·6	16	39·0	10	−25·0	2	27·5
Penticton	49 29	119 35													
Pemberton Hatchery	50 20	122 33						28·7		3	48·0	27	0·0	2	13·4
Prince Rupert	54 18	130 18	170	29·97	30·78	29·05	1·73	34·5		2	52·0	4 19	7·0	1	10·8
Quesnelle	52 59	122 30	1700					12·1	6·5	11	42·0	13	−42·0	2	31·3
Revelstoke	51 0	118 6	1476					20·1	− 1·1	11	38·0	26	− 6·0	2	20·2
Rossland	49 5	117 48	3400	...	...	...	...								
Ruskin (Stave Falls)	49 16	122 23	125	...	...	...	...	34·6	—	2	50·0	28	10·0	1 2	32·4
Salmon Arm	50 42	119 35	1215					21·2		9	42·0	13	−13·0	2	18·8
Steveston (Garry Point)	49 21	123 17						35·9	− 1·9	36	48·5	11	16·5	2	12·0
Swanson Bay	53 37	128 53						28·9	—	3	42·0	26 27	− 9·0	2 3	13·2
Salt Spring Island	48 50	123 29													
Summerland	49 57	119 0	1100					23·0	—	4	40·0	18	− 9·0	2	16·4
Sooke	48 11	123 44	25					39·7		1	58·0	7	20·0	2	15·5
Stewart	56 4	130 1	215					21·7		4	35·1	22 25	6·5	2	11·7
Tobacco Plains (Elko)	49 4	115 5	2681					26·8	+ 0·3	16	49·0	30	1·0	27	16·1
Triangle Island	50 52	129 5	680	30·03	30·65	28·72	1·93	31·8		1	38·0	28	12·4	2	4·4
*a*Tranquille	50 41	120 29													
Vernon (Coldstream Ranch)	50 14	119 15	1575					18·5	− 7·8	18	38·0	13	−16·0	2	15·1
Victoria	48 24	123 19	85	30·06	30·62	29·05	1·57	39·0	− 2·6	19	49·0	28	21·4	2	10·1
Vancouver	49 17	123 5	136	30·09	30·61	29·11	1·50	36·6	− 1·5	10	48·0	25	19·2	2	8·7
Winter Harbour	50 32	128 3						38·1	− 2·4	15	47·0	26 27	20·0	2	11·0
Wilmer	50 34	116 31						11·0	—	2	38·0	11	−19·0	22	28·0

STATION.	Mean temperature of dewpoint.	Mean relative humidity.	Mean amount of cloud.	No. of days completely clouded.	Wind from N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.	Total number of observations.	Velocity: Mean miles per hour.	Velocity: Highest day's velocity.	Velocity: Date and direction from.	Precipitation: Amount.	Precipitation: Difference from average.	Precipitation: Heaviest fall in month.	Days with ·01 or more.	No. of fair days.	No. of Auroras.	No. of thunder storms.	No. of fogs.
BRITISH COLUMBIA—																									
Alberni (Beaver Creek)																		3·78	1·98	[illegible]	11	11	[illegible]	[illegible]	[illegible]
Agassiz																		3·56	1·93	0·71	11	11	[illegible]	[illegible]	[illegible]
Atlin			7	4	4	3	6	2	8	0	0	5	28	56	3·1	20·0	22 S	1·5[illegible]		0·1[illegible]	9	19	[illegible]	[illegible]	[illegible]
Barkerville			5	6	0	0	0	0	0	6	0	1	49	56	1·0	10·0		2·05	0·70	0·70	5	19	0	0	0
Bella Coola	...	...	...	...	...	...	...	...	...	...	...	...						3·68	− 1·43	0·37	6	22	0	0	0
Babine Lake	...	...	...	...	...	...	...	...	...	...	...	...						1·29	—	0·50	4	21	1	0	1
Chilcotin (Big Creek)	...	...	...	...	...	...												0·45	—	0·20	3	25	3	0	0
Cranbrook																		0·46		0·10	7	21	0	0	0
Clayoquot																		8·90	2·77	2·[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0
Cowichan (Tzouhalem)																		4·50	—	[illegible]	7	21	[illegible]	[illegible]	0
Chilliwack																		2·78	− 3·90	0·60	[illegible]	13	[illegible]	[illegible]	[illegible]
Enderby																		1·45	− 0·[illegible]	[illegible]	9	19	[illegible]	[illegible]	[illegible]
Fort St. James (Stuart's Lake)																		0·68	1·76	0·18	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Fairview																		0·60		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Fruitvale																		0·93	—	[illegible]	[illegible]	19	[illegible]	[illegible]	[illegible]
Fort St. John																		[illegible]	—	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Glacier																		4·50	1·8[illegible]	[illegible]	16	[illegible]	[illegible]	[illegible]	[illegible]
Golden																		1·85	—	[illegible]	4	[illegible]	[illegible]	[illegible]	[illegible]
Holberg																		13·80		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Hedley																		0·77		0·5[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Hedley (Nickel Plate)																		2·39	—	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Hope																		3·24	—	0·76	11	[illegible]	[illegible]	[illegible]	[illegible]
Ikeda Bay																		6·51		1·00	13	[illegible]	[illegible]	[illegible]	[illegible]
Kamloops		85	6	7	0	0	13	2	0	17	13	3	8	56	3·6	13·0	1 W	0·21	0·60	0·10	4	[illegible]	[illegible]	0	[illegible]
Ladner																		2·21	− 2·24	[illegible]	6	[illegible]	[illegible]	[illegible]	[illegible]
Massett, Q.C.I.																		3·77	− 0·[illegible]	[illegible]	[illegible]	16	[illegible]	[illegible]	[illegible]
*a*Nanaimo		96	6	8	0	0	1	17	1	1	1	18	17	56	7·7	10·0	12 S E	1·00	− 3·54	0·57	9	19	[illegible]	[illegible]	[illegible]
Nicola Lake																		0·58	− 0·48	0·20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
North Nicomen																		3·74	− 1·11	[illegible]	17	11	[illegible]	[illegible]	[illegible]
New Westminster																		3·21	− 3·75	0·65	[illegible]	13	[illegible]	[illegible]	[illegible]
Nelson																									
Needles																		1·90	—	0·50	8	20	[illegible]	[illegible]	[illegible]
Okanagan Mission (Kelowna)																		0·57	− 0·47	0·17	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Princeton																		1·[illegible]	+ 0·[illegible]	0·25	7	[illegible]	1	[illegible]	[illegible]
Penticton																									
Pemberton Hatchery																		0·90	—	0·30	6	[illegible]	[illegible]	0	[illegible]
Prince Rupert		89	7	11	6	0	12	6	0	3	2	1	28	56	3·8	20·0	[illegible]	7·09	—	3·02	13	[illegible]	[illegible]	0	2
Quesnelle																		0·70	− 0·45	0·40	2	[illegible]	0	0	0
Revelstoke	...	...	...	...	...	...	...	...	...	...	...							3·27	1·54	0·80	13	15	0	0	0
Rossland	...	...	...	...	...	...	...	...	...	...	...														
Ruskin (Stave Falls)																		2·72		0·61	8	20	0	0	0
Salmon Arm																		1·30	—	0·40	7	21	2	[illegible]	2
Steveston (Garry Point)																		1·70	− 2·41	0·45	9	19	0	0	0
Swanson Bay																		7·48	—	1·45	11	11	0	0	0
Salt Spring Island																									
Summerland																		1·10	—	0·25	6	22	2	0	0
Sooke																		3·25	—	[illegible]	[illegible]	[illegible]	[illegible]	0	2
Stewart																		3·90	—	1·[illegible]	11	17	[illegible]	0	0
Tobacco Plains (Elko)																		1·30	0·03	[illegible]	4	24	[illegible]	[illegible]	0
Triangle Island	...	...	9	21	2	11	13	2	0	17	9	12	0	56	23·9	35·0	12 SW	5·28		3·18	[illegible]	8	[illegible]	0	13
*a*Tranquille	...	...	...	...	...	...	...	...	...	...	...														
Vernon (Coldstream Ranch)	...	...	...	...	...	...	...	...	...	...	...							0·90	− 0·21	0·30	6	22	0	0	0
Victoria		78	7	5	10	12	6	6	5	5	5	5	2	56	9·2	10·0	12 SW	0·95	− 2·61	0·22	13	17	0	0	0
Vancouver		82	7	9	0	2	24	6	0	2	3	3	16	56	3·5	15·0	13 E	3·37	− 3·17	0·68	16	12	0	0	2
Winter Harbour	...	...	...	...	...	...	...	...	...	...	...				...	...	...	32·85	− 0·61	2·05	14	14	0	0	0
Wilmer																		0·14	—	0·22	8	20	0	0	0

YUKON :—																																								
Carcross	60	11	131	34	2171					5·6	—	4	41·0	19	−41·0	1	17·9																	1·73	—	0·38	7	21	0	0	0
Dawson	64	4	139	20	1200	30·14	31·02	29·33	1·69	−6·0	+8·4	10	45·0	19	−54·0	1	19·3		6	6	0	0	0	0	22	0	0	1	33	56				0·91	+ ·25	0·30	9	19	4	0	5
White Horse	60	45	135	0	2075																																			
ALBERTA—																																								
Athabasca Landing	51	43	113	17	1650					4·8	—	8	48·0	23	−55·0	2	33·5				2	1	2	4	9	4	4	2	0	28				0·18	—	0·20	3	25	0	0	0
Alix	52	24	113	10						7·5	—	6	45·0	23	14·0	2	35·5				4	0	0	2	5	5	1	9	2	28				0·47	—	0·15	5	23	2	0	0
Banff	51	10	115	31	4512	30·15	30·82	29·31	1·18	11·1	−2·7	14	36·2	21	−29·8	2	23·9	69	5	4	0	6	0	3	2	17	6	0	21	56				0·65	−0·16	0·17	—	—	2	0	0
Blairmore	49	1	114	30	4225					13·1	—	1	42·8	11	−21·4	21	26·1																	0·15	—	0·15	1	27	0	0	0
Calgary	51	2	114	2	3389	30·10	30·80	29·32	1·48	11·6	−0·8	25	44·0	23	−22·0	2	21·1		3	0	2	3	1	7	0	2	0	20	21	56				0·56	+0·01	0·30	3	25	0	0	0
Cardston	49	12	113	18						11·3	—	5	45·0	9	−22·0	1	22·6																	1·10	—	0·40	4	24	0	0	0
Didsbury	51	40	114	8	3300					11·5	—	9	56·0	23	32·0	2	22·9				0	1	2	3	1	7	6	8	0	28				0·40	—	0·20	3	25	0	0	0
a Dunvegan	55	56	118	35	1305																																			
Daysland	55	52	112	17																																				
Edmonton	53	33	113	30	2158	30·10	30·84	29·37	1·47	12·1	+1·3	26	52·0	23	−42·0	2	28·7		1	3	3	6	3	3	12	5	7	9	8	56				0·31	−0·43	0·13	5	23	4	0	0
Eckville	52	23	114	22						3·8	—	4	37·0	21	44·0	2-3	33·2																	0·20		0·10	2	26	0	0	0
Endiang	52	0	112	0	2795					5·1	—	1	38·0	21	−35·0	1	20·0																	—	—	—	—	—	0	0	0
Fort Vermilion	58	27	116	3						2·8	—	6	41·0	21	57·5	2	30·4																	0·35	—	0·20	1	27	11	0	0
Gleichen	50	59	112	51	2952					9·6	+0·1	12	35·0	12	−28·0	2	21·1																	0·40		0·20	2	26	0	0	0
Gilt Edge	52	59	110	43						0·8	—	2	36·7	21	−10·6	2	23·0				0	3	1	4	6	9	4	1	0	28				0·30	—	0·10	4	24	3	0	2
Hillsdown	52	11	113	29	2806					10·1	—	8	42·0	23	−36·0	2	25·3				0	4	0	6	4	3	0	24	15	56				0·50	—	0·20	5	23	7	0	0
High River	50	35	113	53	3394					14·7	—	7	47·0	21	−27·0	2	22·8																	1·00	—	0·30	9	19	0	0	0
Harmattan	51	45	114	23	3500					12·0	—	4	52·0	21	−35·0	2	31·4																	0·65	—	0·20	6	22	0	0	0
Halkirk, (Emsburg)										4·5	—	3	32·0	13	−32·0	2	21·3				3	1	0	9	6	25	0	12	0	56				0·43	—	0·20	5	23	3	0	3
Lethbridge	49	42	112	51	2961					16·8	1·9	10	47·2	21	−20·2	27	25·0																	0·51	—	0·30	6	22	0	0	0
Lethbridge (Exp. Farm)	49	43	112	51						15·8	—	1	49·0	23	−20·5	27	21·1																	0·52	—	0·27	6	22	0	0	0
Lacombe	52	58	113	44	2783					9·8	—	7	43·6	10	−39·2	2	30·8																	0·48	—	0·15	7	21	0	0	0
Lawrence	50	16	113	26						13·9	—	5	42·0	11-23	−23·0	2	29·7																	0·70	—	0·30	5	23	0	0	1
Lunnford	54	33	111	19						6·1	—	2	57·0	23	−51·5	2	39·1																	0.27		0·10	4	24	2	0	0
Loveland	52	30	111	59						—	—	1	—	—	−34·0	2	—				2	0	1	5	2	8	4	9	0	28				—	—		—	—	0	0	0
Medicine Hat	50	1	110	37	2144																																			
Macleod	49	44	113	24	3128					21·0	+2·1	16	62·0	13	21·0	20	30·6																	1·15	+0·83	0·65	4	24	0	0	0
Peace River Crossing	56	15	117	15						0·7	—	4	49·0	23	−51·0	2	32·9																	0·40	—	0·20	2	26	5	0	0
Pembina	54	12	114	0						6·3	—	3	49·6	21	−53·0	2	38·6																	0·55	—	0·10	8	20	13	0	0
Pakan (Victoria)	54	0	112	31						3·8	—	7	42·7	24	−53·0	2	30·9				4	3	6	4	8	10	5	3	16	56				0·52	—	0·25	5	23	0	0	1
Pincher Creek	49	0	114	4	3750																																			
Red Deer	52	16	113	49																																				
Spirit River	55	40	118	47						8·4	—	2	48·0	23	−45·0	2	23·5																	0·42	—	0·25	3	25	5	0	0
Threehills Creek	51	30	113	41						5·0	—	9	35·0	23	−31·0	2	22·8																	0·32	—	0·10	5	23	11	0	0
Wetaskiwin	52	58	113	23	2480					8·4	—	9	40·0	21	−40·0	2	21·8																	0·26	—	0·14	2	26	0	0	0
Waitefield	53	29	111	38	2000					2·9	—	6	39·0	23	−47·2	2	23·5				2	3	8	26	6	12	11	8	12	84				0·29	—	0·09	5	23	13	0	3
SASKATCHEWAN—																																								
Battleford	52	41	108	20	1620	30·20	30·99	29·50	1·49	1·4	+0·8	20	39·0	21	34·0	4	22·6		5	5	1	0	0	18	0	5	9	12	37	84				0·05	−0·38	0·02	4	24	2	0	0
Broadview	50	23	102	33	1960																																			
Brownlee	50	45	106	0						2·8		1	31·8	21	−21·9	2	18·1				0	0	1	4	8	4	4	5	2	28				0·15	—	0·30	2	26	4	0	1
Chaplin	50	26	106	39	2202					2·0	+1·0	25	33·0	21	28·0	2	25·0				0	2	0	7	0	1	4	11	0	28				0·11	—	1·03	6	22	6	0	0
Cannington Manor	49	43	102	2	2061					0·5	−2·4	13	28·0	21	−26·0	3	17·8																	0·40	—	0·20	3	25	0	0	0
Crescent Lake	50	59	102	25	1658					1·2	—	7	30·1	25	−31·9	3	21·8				2	0	0	2	7	3	9	5	0	28				0·83	—	0·15	5	23	8	0	1
Duck Lake	52	54	106	20						—	—	5	30·0	12	−35·0	1-5	—																	—	—	—	—	—	0	0	0
Estevan	49	12	103	4	1858					0·5	—	7	28·0	25	−26·0	2	21·5				0	1	5	4	2	8	6	4	1	28				0·40	—	0·20	2	26	1	0	1
East End	49	31	108	49																																				
Foxleigh	50	37	104	29						5·4	—	3	34·0	11	−27·0	3	21·4				0	0	0	11	1	1	0	9	6	28									5	0	0
File Hills	51	4	103	31						−0·9	—	1	32·0	21	−42·0	3	30·7																	1·20	—	0·60	4	24	2	0	0
Grenfell (Brownhill)	50	23	102	53	1957					3·4	+0·4	11	28·0	25	−27·0	2	20·5				0	2	1	6	10	18	0	15	0	52				0·30	−0·02	0·30	1	27	2	0	1
Govan	51	17	104	54						−1·2	—	2	31·5	25	−29·0	3	20·4																	0·29	—	0·20	4	24	0	0	0
Glenbryan	49	16	107	6	2500					3·2	—	1	33·0	13	−30·0	3	27·4				1	9	0	2	4	18	12	10	0	56				0·67	—	0·35	4	24	4	0	0
Humboldt	52	12	105	9						—	—	3	45·0	18	−24·0	2	—																	—	—		—	—	0	0	0
Hubbard (Drumague)	51	5	103	21						0·3	—	2	31·0	25	−31·0	3	22·7																	0·40	—	0·40	1	27	0	0	0
Indian Head	50	28	103	40	1924					1·0	0.0	21	28·0	14-25	31·0	4	25·3				2	2	3	2	26	10	7	26	6	84	11	VI	3 NW	0·95	+0.53	0·45	4	24	0	0	0
Kamsack	51	30	101	52																																				
Lloydminster	53	18	110	0						−2·0	—	4	39·0	24	−42·0	2	26·0																	—	—	—	—	—	2	0	0
Lanigan	51	51	105	2																																				
Moose Jaw	50	21	105	35	1759					3·0	0·9	16	33·0	24	−28·0	3	23·0		4	8	3	2	1	8	0	4	23	9	31	84				0·35	—	0·10	2	26	1	0	0
Moosomin	50	0	101	37	1884					3·3	—	9	29·0	22-24	−29·0	3	29·0				1	0	2	5	3	2	8	7	0	28				—	—		—	—	0	0	0
Muenster (St. Pete's Monaster.)	52	0	105	0	1870					−0·6	—	6	33·0	21	−38·0	4	19·1				0	7	0	0	0	7	1	13	0	28				0·30	—	0·30	1	27	5	0	1
Melfort	52	47	104	30						1·8	—	2	37·0	21	−34·0	4	21·9																	0·20	—	0·10	3	25	5	0	0
Maple Creek	49	55	109	28																																				
Orion Lake	53	52	109	59						0·2	—	4	55·0	26	−42·0	2-3	28·1				3	4	8	0	1	3	1	5	0	25				—	—	—			0	0	0
Oliver	51	46	108	10						−2·1	—	1	32·0	24	−35·0	2	25·9																	0·30		0·10	3	25	5	0	0
Pense (Gatesgarth)	50	20	105	0	1879					0·2	−3·2	13	30·0	21	−33·0	3	21·5				0	3	3	1	0	6	6	8	1	28				—					0	0	0
Prince Albert	53	10	106	0	1432	30·15	30·93	29·48	1·45	2·6	+3·0	26	38·0	28	−32·0	4	28·6				1	0	8	2	4	9	4	3	19	53				0·50	−0·23	0·20	3	25	1	0	0
Prince (Meota)	51	0	108	20	1700					1·9	—	5	37·0	24	−41·0	1	29·2																	0·10		0·10	1	27	8	0	2
Qu Appelle	50	30	103	47	2115	30·18	30·96	29·62	1·34	5·0	+3·7	26	32·5	14	30·0	4	21·9	82	6	4														0·50	−0·43	0·26	3	25	1	0	0
Regina	50	27	104	37	1885					1·7	+0·3	25	28·0	24	26·0	4	16·8																	0·21	−0·08	0·10	5	23	0	0	0
Rathmullen	51	20	108	57						2·8	—	1	29·0	25	36·0	3	22·7																	0·58	—	0·29	7	21	0	0	0

PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA, FEBRUARY, 1911.

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

STATION.	Latitude N.	Longitude W.	Elevation above sea level, in feet.	Pressure: Mean reduced.	Pressure: Highest.	Pressure: Lowest.	Pressure: Range.	Temperature: Mean.	Difference from average.	Years observ'n	Highest.	Date.	Lowest.	Date.	Mean daily range.
	° '	° '		in.	in.	in.	in.								
SASKATCHEWAN *Con.*															
Rosthern	52 40	106 20	1657					1·0	—	1	35·5	25	−29·8	3	22·4
Swift Current	50 20	107 15	2139	30·22	31·00	29·48	1·52	8·8	−0·2	25	31·0	10 21	−22·0	2 3	18·3
Saskatoon	52 15	106 30	1571					2·2	+1·2	11	31·5	25	33·1	4	21·0
Strassburg	51 5	104 56						0·6	—	1	31·0	25	30·0	3	20·6
Scott (Hearts Hill)	51 50	109 30													
Stanley Mission								—	—	3	38·0	21			
The Pas	53 49	101 15	890	30·23	30·97	29·55	1·42	0·6	—	1	39·0	24	−12·0	4	21·1
Wascea	53 6	109 20						2·7	—	4	35·0	24	−37·0	2	23·2
Yorkton	51 11	102 29													
Yarbo (Fairfield)	50 39	102 4						3·7		4	31·0	25	38·0	3	25·8
MANITOBA															
Almasippi	49 11	99 20						1·5	—	9	39·0	24	−32·0	5	23·4
a Awene (St. Alban's)	49 42	99 33	1180	28·88	29·15	28·12	1·03	2·4	+1·8	27	32·5	11	−28·5	3	25·2
Brandon	49 51	99 57	1176					0·3	+1·9	23	33·1	25	29·7	5	25·2
Berens River	52 18	97 23	710												
Carberry	49 52	99 20	1258							7					
Carman	49 31	98 0	872												
Cypress River	49 33	99 3	1232												
Dauphin	51 8	100 2	957					1·4		6	35·5	25	−30·8	5	22·5
Hillview	49 55	100 33	1400					1·0	+0·4	25	31·0	25	−29·0	3	21·1
Minnedosa	50 15	99 50	1690	30·20	30·82	29·60	1·22	3·4	+2·8	27	31·0	25	31·5	5	21·6
Morden	49 11	98 6	978					7·4	—	7	39·0	24	−28·5	5	22·5
Moose Horn Bay (Aitkensville)	51 15	99 33						2·1	—	1	36·5	25	−41·1	5	22·3
Ninga	49 11	99 51	1649					7·7	—	1	37·2	11	21·8	2	19·4
Oakbank	49 57	96 42	800					5·5	+7·6	11	35·3	24	31·0	5	18·1
Pipestone	49 34	100 58	1400												
Portage la Prairie	49 57	98 17	830					3·4	+2·4	22	31·5	25	32·0	2	20·7
Portage la Prairie (2)	49 56	98 17													
Pierson	49 11	101 5	1531												
Stony Mountain	50 10	97 14	803					3·1	+4·5	30	39·0	25	35·0	5	26·3
Swan River	52 6	101 15	1112					4·6	—	3	35·0	25	−39·0	2	23·6
Treherne	49 36	98 40	1212					4·3	+2·3	16	32·0	21	−29·0	3	19·2
Virden	49 51	100 55	1444												
Winnipeg	49 53	97 7	760	30·22	30·82	29·57	1·25	6·5	+7·5	37	35·5	21	−31·6	5	20·6
ONTARIO															
Alton	43 51	80 5	1250					17·2	+1·5	24	43·0	18	−8·8	6	19·9
Aurora	43 57	79 24	886					19·5		3	44·3	25	4·7	6	18·8
Agincourt	43 47	79 16	590					21·7	+5·8	16	47·4	17	1·1	5	12·6
Barrie	44 23	79 41	839												
Beatrice	45 8	79 20	800					17·2	+3·9	35	41·0	25	13·0	3	19·4
Bruce Mines	46 18	83 55	595					18·3	+7·4	13	49·0	25	20·0	5	17·1
Birnam	43 2	81 55	640					25·7	+6·2	29	48·2	25	10·2	6	10·8
Brantford	43 10	80 21	750					21·9	+4·9	21	47·0	17	5·0	20	11·3
Bloomfield	43 59	77 21	260					20·0	+4·9	13	39·0	27	1·0	16 28	16·4
Bancroft	45 1	77 50						12·5	−0·1	20	41·0	25	−24·0	2	20·8
Copper Cliff	46 30	80 59						12·5	—	4	40·5	25	−24·0	5	19·8
Clinton	43 32	81 37						23·0	—	8	42·0	18 26	6·0	3 23	12·3
Coldwater	44 38	79 40	600					15·6	+0·3	21	45·0	25	11·0	3	24·7
Cottam	42 7	82 45	646					27·6	+4·2	23	51·0	16 25	4·0	10	18·2
Chatham	42 23	82 12	595					28·8	+6·3	25	57·0	17	9·0	11	15·1
Cochrane	49 2	81 0	930	30·18	30·73	29·59	1·14	4·8	—	1	17·0	25	36·0	4 6	25·9
Collingwood	44 31	80 2								17			4·0	5 6	
East Toronto	43 35	79 18						23·6	—	5	45·0	25	0·0	5 6	11·5
Elora	43 41	80 24	1274					20·9	+3·1	14	42·0	25	1·0	21	13·4
Gravenhurst	44 54	79 20						16·2	+3·4	10	43·0	25	−17·0	3	21·8
Guelph	43 33	80 16	1050					22·6	+5·6	23	44·0	17	3·0	3 21	13·4
a Grimsby	43 13	79 36	282	29·60	30·12	29·10	1·02	26·4	—	2	47·0	26	3·0	21	14·4

STATION.	Mean temperature of dewpoint.	Mean relative humidity.	Mean amount of cloud.	No. of days completely clouded.	Wind from N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.	Total number of observations.	Velocity: Mean miles per hour.	Highest day's velocity.	Date and direction from.	Precipitation: Amount.	Difference from average.	Heaviest fall in month.	Days with ·01 or more.	No. of fair days.	No. of auroras.	No. of thunder storms.	No. of fogs.
SASKATCHEWAN *Con.*																									
Rosthern																		0·80	—	0·40	3	25	0	0	1
Swift Current		85	3	5	2	4	0	1	7	19	36	6	9	84				0·26	0·79	0·14	6	22	0	0	0
Saskatoon																		0·19	0·02	0·20	3	[illegible]	0	0	0
Strassburg																							0	0	0
Scott (Hearts Hill)																									
Stanley Mission					3	1	11	3	0	8	6	8	13	53				0·75	—	0·40	4	21	3	0	0
The Pas																		0·29	—	0·10	3	25	2	0	0
Wascea					0	1	5	2	0	10	3	0	1	28				0·35	—	0·20	2	25	6	0	0
Yorkton																									
Yarbo (Fairfield)					2	2	1	5	2	0	1	14	1	28				1·10		0·30	7	21	5	0	3
MANITOBA																									
Almasippi																		0·40		0·10	4	28	3	0	0
a Awene (St. Alban's)																		0·72	+0·09	0·21	7	21	11	0	0
Brandon			1	2	0	11	1	1	0	10	26	26	3	84	1	11	28 W	0·70	−0·16	0·30	4	21	2	0	0
Berens River																									
Carberry					7	2	0	0	2	2	23	1	19	57				1·30	—	0·70	3	25	2	0	0
Carman																									
Cypress River																									
Dauphin																							[illegible]	0	0
Hillview			2	0	1	2	5	6	0	26	16	31	0	84				0·70	−0·17	0·40	3	25	0	0	0
Minnedosa			4	2	2	1	3	0	0	0	7	12	31	56				0·91	+0·37	0·60	5	23	6	0	1
Morden																		0·97	—	0·90	6	22	0	0	0
Moose Horn Bay (Aitkensville)					12	1	2	6	8	1	9	9	1	52				0·90	—	0·55	9	19	12	0	2
Ninga																		1·00	—	0·38	4	24	1	0	0
Oakbank					4	0	0	1	8	5	7	3	0	28				1·70	+0·76	0·40	7	21	0	0	0
Pipestone																									
Portage la Prairie																		—	—	—	—		0	0	0
Portage la Prairie (2)																									
Pierson																									
Stony Mountain					5	2	5	3	3	9	15	8	0	50				0·30	−0·57	0·20	2	26	0	0	2
Swan River																							0	0	0
Treherne																		0·60	−0·19	0·20	8	20	7	0	0
Virden																									
Winnipeg			5	3	2	2	13	1	2	0	20	10	6	56				0·71	+0·02	0·22	7	21	1	0	0
ONTARIO																									
Alton			5	6	5	2	13	6	15	12	27	4	0	84	11	X		1·60	0·02	0·30	10	18	0	0	1
Aurora																		1·41	−0·55	0·70	11	17	0	0	0
Agincourt					6	9	16	0	4	5	26	21	0	84				1·05	−1·57	0·90	13	15	0	0	2
Barrie																									
Beatrice			7	12	1	0	6	18	6	3	2	28	20	84	11	IX		1·13	−1·45	0·25	8	20	0	0	3
Bruce Mines																		1·21	0·91	0·64	4	24	3	0	0
Birnam					2	6	9	4	10	3	7	15	0	56				1·27	−1·81	0·40	8	2	0	1	3
Brantford																		1·70	−0·12	0·80	5	23	0	0	4
Bloomfield																							0	0	0
Bancroft																							0	0	0
Copper Cliff																		0·80	—	0·40	4	21	0	0	0
Clinton					1	4	9	5	8	6	11	12	0	56				2·65		0·48	13	15	1	0	1
Coldwater																		1·07	1·77	0·37	6	22	0	0	0
Cottam					23	1	1	10	5	5	4	4	0	56				2·91	−0·89	1·50	7	21	0	0	4
Chatham																		1·10	−1·12	0·50	3	25	0	0	0
Cochrane					0	3	1	4	0	4	1	10	28	51				0·50	—	0·30	2	26	0	0	0
Collingwood																		1·20	—	0·10	7	21	0	0	0
East Toronto																		1·51	—	0·80	10	18	0	0	0
Elora																		2·83	+0·39	0·60	17	11	0	0	0
Gravenhurst					3	3	17	17	5	4	8	11	13	84	11	IV		1·49	−0·81	0·50	9	19	2	0	0
Guelph																		1·80		0·90	9	19	0	0	0
a Grimsby																		1·71	—	1·00	13	15	0	0	0

ONTARIO—*Concluded.*																																										
Haileybury	47	29	79	39	687	30.16	30·71	29·58	1.13	9·7	+ 0·9	16	46·2	25	−18·4	11	20·8					5	1	1	8	2	7	4	17	11	56				2·61	+0·67	1·06	13	15	5	0	3
Hamilton	43	16	79	54	303					25·8	+ 1.9	36	47·0	17	3·0	21	10·5																		2·60	−0·16	1·20	5	23	0	0	0
Haliburton	45	1	78	28	1050					14·6	+ 2·0	23	43·0	25	−19·0	3	21·3																		—	—	—	—	—	0	0	0
Huntsville	45	19	79	8						16.3		5	45·0	25	−18·0	5	18·6																		—	—	—	—	—	0	0	0
Kenora	49	48	94	32	1102																																					
Kakabeka Falls	48	29	89	26	912					12·0	—	3	17·0	25	−42·0	5	24·1																		2·60	—	1·30	7	21	2	0	0
Kingston	44	13	76	29	285	30·14	30·67	29·55	1·12	16·9	− 0·6	36	40·0	25	− 7·5	6	16·8			7	6	6	23	3	3	0	5	11	5	0	56				1·29	−0·80	0·23	13	15	0	0	1
Kinmount	44	15	78	38	920					12·4	+ 1·6	12	41·0	25	−21·0	2	23·0																		1·50	—	0·70	8	20	0	0	0
Lucknow	43	56	81	30	908					21·4	+ 2·2	25	41·9	17	− 2·0	21	13·7																		2·61	−0·50	0·10	20	8	1	0	4
Lake Talon	46	15	78	48						11·0	+ 1·9	16	45·5	25	−25·0	6	18·5																		2·15	+0·39	1·00	7	21	2	0	0
London	42	59	81	13	808	30·06	30·49	29·59	0·90	25·9			50·5	25	5·0	9	13·6			7	13	0	21	0	27	0	7	14	15	0	84				1·07		0·84	14	14	0	0	0
Lakeside Home	43	40	79	24						25·2	—	6	42·0	25	5.0	5-6	13·0																		—	—	—		—	0	0	0
Lorne Park	43	32	79	37						25·2	—	3	50·0	25	4·0	6	15·5																		1·84	—	0·50	7	21	0	0	0
Lindsay	44	20	78	45	872					18·6			41·1	25	− 6·0	6	16·1			7	10	8	3	12	13	9	4	16	13	6	84	II	VII	6 SE	1·39		0·70	9	19	0	0	0
Lakefield	44	25	78	15	850					22·3	+ 8·9	24	58·0	26	3·0	3	20·1																		1·60	− 0·84	0·60	8	20	1	0	0
Meaford	44	37	80	37	600																																					
*Midland	44	44	79	53	750					21·4	—	3	50·0	25	− 7.0	5																			0·90	—	0·40	4	21	0	0	0
Madoc	44	30	77	29	575					15·4	—	7	43·0	25	−11·0	3-6	15·2																		1·99	—	0·40	15	15	0	0	0
Montague	44	56	75	57						13·0	—	1	41·5	26	−24·0	6	19·8																		1·50	—	0·50	7	21	2	0	0
Montreal River										8·1	—	1	44·0	25	−28·0	5-6	27.6																		2·72	—	1·30	9	21	0	0	0
*North Bruce	44	23	81	25						23·8	+ 7·7	23	43·0	17	3·0	6	—					19	3	13	5	12	12	7	13	0	84				1·02	−1·29	0·25	12	16	0	0	2
North Gower	45	8	75	43						11·7	—	9	50·0	26-27	−20·0	5	20·4																							0	0	0
Owen Sound	44	34	80	55	597					22·1	+ 3·1	31	44·0	18	− 2·0	5	12·4					14	2	0	0	20	11	0	9	0	56				3·40	+0·81	0·80	7	21	0	0	2
Orillia	44	34	79	21	775					18·3	+ 3·7	19	43·0	25	− 6·0	1-5	17·4					1	2	3	4	1	5	5	1	3	28				—		—			0	0	0
Ottawa	45	26	75	42	294	30·13	30·71	29.62	1·09	12·1	− 1·4	28	39·0	26	−20·0	6	18·1					9	7	21	1	0	4	10	4	0	56				2·74	+0·24	0·80	9	19	0	0	0
*Ottonabee	44	20	78	18	674					18·5	+ 1·3	15	40·0	26	− 2·0	4 6	—					6	3	23	0	1	8	31	9	3	84				1·60	−1·16	0·40	4	21	0	0	0
Port Arthur	48	27	89	12	644	30·13	30·66	29·54	1·12	16·4	+ 9·0	30	44·0	24	−24·0	5	19·8			6	7	7	12	0	5	1	4	12	14	1	56				1·28	−0·77	0·35	6	22	0	0	0
Port Stanley	42	40	81	13	592	30·14	30·56	29·60	0·96	26·9	+ 5·5	36	47·2	17	9·0	23	11·9			8	14	5	9	1	6	1	3	7	17	4	56				2·84	−0·14	0·98	17	11	0	4	4
Port Dover	42	47	80	13	635					23·4	+ 1·2	36	47·5	25	3·5	21	10·9					2	2	7	3	2	3	2	7	0	28				2·46	−0·60	0·74	12	16	0	0	0
Port Burwell	42	39	80	55	592					26·4	—	7	42·5	17	7·0	21	9·9																		2.75	—	1·50	7	21	0	1	0
Parry Sound	45	19	80	0	635	30·11	30·56	29·56	1·00	18·3	+ 4·4	35	40·0	25	−14·0	5	18·0			7	7	5	12	2	13	1	8	2	13	0	56				1·67	1·56	0·35	12	16	0	0	0
Point Clark	44	5	81	44	595																																					
Pelee Island	41	50	82	35	585																																					
Paris	43	12	80	25	840					24·5	+ 4·6	22	45·0	17-25	5·0	21	13·4																		3·29	+0·79	1·51	6	22	0	0	0
Peterboro	44	17	78	19	722					18·2	+ 1·6	42	44·0	18	−9·0	3-5	17·2																		1·65	0·94	0·40	6	22	0	0	0
Ronville	45	15	78	57	1038					13·3	—	4	43·0	26	−17.0	2	18·2																							0	0	0
Renfrew	45	26	76	39	446					11·6	− 0·2	22	46·0	26	−25·0	3	19·5																		2·93	+1·55	0·60	11	17	0	0	7
Stonecliffe (Rockliffe)	46	9	78	6	557	30·07	30·60	29·34	1·26	9·6	+ 1·0	33	42·0	26	−28·0	6	25·1					10	0	1	0	0	0	8	2	35	56				1·84	+0·19	0·79	11	17	1	0	0
Southampton	44	30	81	21	656	30·10	30·56	29·57	0·99	24·5	+ 3·3	34	43·1	17	0·0	6	15·0			9	13	7	10	5	10	1	12	3	5	0	56				2·78	−0·18	1·09	17	11	0	0	0
*Sarnia	42	59	82	24	586					27·3	+ 7·2	17	0·0	25	7·0	11																			0·30	−1·98	0·30	1	27	0	0	0
Stratford	43	23	81	0	1191					21·7	+ 2·9	15	42·0	26	0·0	21	19·0																		1·56	−1·29	1·30	2	26	0	0	0
Stony Creek	43	13	79	45	292					26·9	+ 3·0	26	46·0	17	1·0	21	11·7			6	10	3	5	22	1	1	22	18	12	0	84	III	X	6 E	3·57	+0·48	1·21	8	20	0	0	0
Schreiber	48	50	87	15						11·4	—	9	42·8	16	−28·2	5	23·3																		3·70	—	1·40	6	22	7	0	0
Shelburne	44	5	80	47						17·7	—	2	40·5	17-18	− 1·5	6	11·5																		1·40	—	0·30	8	20	0	0	1
Toronto	43	40	79	21	350	30·11	30·56	29·18	1·08	25·5	+ 4·4	71	47·7	25	4·7	6	13·5					6	7	13	1	0	8	14	5	2	56				2·12	0·20	0·89	16	12	0	0	4
Uxbridge	44	5	79	8	886					19·2	—	7	43·0	17	− 8·0	6	13·4																		1·89	—	0·40	12	16	0	0	0
Uplands	45	48	79	25						14·2	+ 2·2	24	46·0	25	−18·4	3	23·9					11	0	10	0	13	0	14	0	8	56				2·03	0·92	0·80	9	19	0	0	0
Ursa	44	54	78	18						15·6	—	5	32·0	17	−14·0	28	12·2																		2·10	—	0·50	8	20	0	0	0
White River	48	35	85	16	1252	30·09	30·59	29·47	1·12	7·9	+ 6·7	22	42·0	25	−12·0	5	25·1					9	0	7	2	1	0	11	4	22	56				0·20	1·25	0·06	7	21	0	0	0
Woodstock	43	8	80	47	980	30·09	30.61	29·51	1·10	25·3	+ 2·9	37	46·0	26	6·0	21	13·6		82	8	15	9	6	5	14	1	16	6	27	0	84	13·5	19·0	—	2·60	+0·34	1·04	10	18	0	0	0
Welland	42	59	79	17	577					25·6	+ 5·9	21	43·0	17	2·0	6	13·2																		2·35	2·29	0·55	12	16	0	0	0
Windsor	42	20	83	4	625					29·2	+ 6·3	35	50·0	17-26	10·0	11	11·9																		2·53	+0·16	0·71	9	19	0	0	0
Wallaceburg	42	35	82	24						26·9	—	5	47·0	26	10·0	21	12·1																		3·24	—	1·60	9	19	0	0	1
QUEBEC—																																										
Abitibi	48	43	79	22						2·7	+ 0.2	15	41·0	25	−37.0	6	25·6			6	5	13	9	12	6	11	7	12	14	0	84	II	IV	23 W	1·05	−0·26	0·50	5	23	0	0	0
*Anticosti, E. Point	49	6	61	42	30																																					
*Anticosti, W. Point	49	52	64	32	30																																					
Brome	45	10	72	36	678					9·8	− 3·6	31	43·0	26	−29·0	6	20·7					21	2	4	6	10	1	36	3	1	84				1·70	−0·23	0·80	5	23	0	0	0
*Bicquet	48	25	68	53																																						
Clarke City	50	10	66	25						4·4	—	6	37·0	16	31·0	2	23·5					5	1	0	0	0	4	7	11	0	28				1·70	—	0·60	4	21	0	0	0
*Cape Chatte	49	6	66	45						8·9	− 4·1	29	28·0	28	−10·0	6	—					5	1	3	2	0	1	23	1	48	84				0·90	—	0·30	5	23	0	0	0
*Cape Magdalen	49	16	65	20	93					8·3	− 4·6	26	32·0	26	−12·0	3	—					0	0	2	3	8	0	4	51	16	84				1·04	−1·05	0·50	9	19	0	0	0
Chicoutimi	48	25	71	5	150					—		32		—		—	—			5	2	0	3	0	21	0	51	0	3	0	84	III	VIII	SSE	0·90	0·70	0·48	8	20	3	0	6
Father Point	48	31	68	19	120	30·22	30·60	29·43	1·17	5·4	− 5·7	33	32·0	27-28	−24·5	3	19·6					3	3	6	2	1	11	4	16	7	56				1·52	−0·81	0·56	12	16	0	0	0
Lake Edward	47	39	72	15	333					−2·0	—	2	35·1	27	−43·7	1	27·5																		1·40	—	0·60	5	23	0	0	0
Montreal	45	30	73	35	187	30·12	30·71	29·45	1·26	12·4	− 2·2	36	43·3	26	− 8·1	3	11·9			6	7	9	6	9	2	2	16	7	5	0	56				3·29	+0·06	1·05	13	15	0	0	3
Quebec	46	48	71	13	296	30.09	30·68	29·44	1·24	8·2	− 3·5	36	39·0	26	−16·5	1	16·8			6	7	0	3	13	1	2	17	19	4	0	56				1·90	−1·16	0·66	12	16	1	0	1
*Roberval	48	31	72	13	352																																					
St. Anne de Bellevue	45	27	73	59						10·2	—	5	45·8	26	−21·5	6	16·5																		—	—	—	—	—	0	0	0
Shawinigan Falls	46	34	72	43						3·7	—	6	38·0	26	−31·0	1	22·9																		—	—	—			0	0	0
Sherbrooke	45	32	72	5	620					8.7	—	8	41·3	27	−21·6	6	23·2																		2·48	—	0·53	19	9	0	0	0
Shawbridge	45	54	74	3																																						

PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA, FEBRUARY, 1911.

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

STATION.	Latitude N.	Longitude W.	Elevation above sea level, in feet.	Pressure. Mean reduced.	Pressure. Highest.	Pressure. Lowest.	Pressure. Range.	Temperature. Mean.	Temperature. Difference from average.	Temperature. Years observ'tn	Temperature. Highest.	Temperature. Date.	Temperature. Lowest.	Temperature. Date.	Temperature. Mean daily range.	Mean temperature of dewpoint.	Mean relative humidity.	Mean amount of cloud.	No. of days completely clouded.	Wind from N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.	Total number of observations.	Velocity of wind. Mean miles per hour.	Highest day's velocity.	Date and direction from.	Precipitation. Amount.	Difference from average.	Heaviest fall in month.	Days with ·01 or more.	No. of fair days.	No. of auroras.	No. of thunder storms.	No. of fogs.
New Brunswick—																																								
Chatham	47 3	65 29	21	30.02	30.70	29.49	1.21	11.2	−2.9	36	42.0	27	−22.5	13	21.2	...	...	4	4	2	2	4	1	0	16	18	10	3	56	...	...	...	0.90	−1.80	0.28	11	17	0	0	0
Dalhousie	48 4	66 22	39	...	...	...	...	9.5	−	34	35.0	27	−28.0	6	17.2	...	...	...	...	4	0	7	1	0	0	18	1	0	28	...	...	...	0.80	−2.03	0.50	2	26	0	0	0
Fredericton	45 57	66 36	164	30.06	30.67	29.41	1.26	14.0	−2.9	38	44.0	27	−22.0	13	21.9	...	81	4	2	2	8	4	1	1	9	25	28	5	84	10.0	23.0	27 S.W.	4.47	−2.48	0.25	7	21	0	0	0
Grand Manan	44 47	66 46	49	30.03	30.51	29.48	1.06	20.1	1.8	26	46.7	27	−2.0	6	15.2	...	...	5	4	6	11	5	0	0	7	8	13	3	56	...			2.41	−1.50	1.50	6	22	3	0	0
Moncton	46 9	64 45	50			...		10.9	6.0	14	41.0	4	−19.0	12	21.9	...	...			0	3	0	2	0	0	0	23	0	28	...			0.38	−2.40	0.25	3	25	0	0	0
*Point Lepreaux	45 4	66 28	30			...	...	16.6	5.2	33	41.0	27	−6.0	2	15	...	...	4	6	12	12	6	2	1	2	4	33	0	72	111			2.66	−1.38	0.70	4	24	0	0	0
St. John	45 17	66 4	70	30.03	30.60	29.46	1.14	16.1	3.6	38	44.3	27	−6.2	13	17.4		...	...		8	12	0	1	2	4	5	23	4	56	...			2.41	−0.86	0.89	9	19	0	0	3
St. Stephen	45 11	67 16	35	...			...	12.5	1.5	11	44.0	4	−22.0	11	23.3		...	...	...	...	...				...	...				...			4.63	+1.72	2.12	7	21	0	0	0
Sussex	45 38	65 38	69				...	13.6	2.4	14	57.0	24	−21.0	13	21.3	...	...	...		0	2	0	0	0	0	2	7	17	28	...			0.83	−2.89	0.83	1	27	0	0	0
Nova Scotia—																																								
Antigonish	45 38	61 59	50		...		...	14.4		1	48.0	28	−17.0	26	20.0	...	...	...		...					...			...					1.60	—	0.70	2	26	0	0	0
Halifax	44 39	63 36	88	29.99	30.63	29.46	1.17	17.7	6.2	36	47.2	27	−5.2	4	18.5	...	...	...	...	6	15	5	0	1	3	6	18	2	56	...	...		4.80	+0.28	1.67	11	17	0	0	0
Port Hastings	45 39	61 22	15		...	...				20	45.0	5					...	...		0	3	0	4	0	5	0	16	0	28	...	...		1.70	−1.80	0.80	4	24	0	0	0
Parrsboro'	45 23	64 19	40	...	...	...		14.6	8.1	15	40.0	28	−12.0	12 13	20.0	...	...	...		...		...			...			...										0	0	0
Sydney	46 10	60 10	35	29.93	30.66	29.35	1.31	15.7	5.7	37	44.0	5	−12.8	13	18.0	...	...	6	5	6	2	2	0	0	7	9	21	6	56	...			3.39	−1.06	1.11	7	21		0	0
*Sable Island, E. Point	43 58	59 46	25	...	...	...	...	25.5	4.5	24	39.0	27	12.0	1		...	...	...	...	4	30	0	5	1	13	0	31	0	84	...			2.38	−2.18	0.53	7	21		0	2
Truro	45 22	63 18	77	...	...	...	...	13.5	−6.1	37	44.5	5	−18.2	13	21.1	...	...	...	...	13	13	0	2	5	2	27	12	10	84	...			3.01	−0.84	0.96	9	19	3	0	0
Windsor	44 59	64 6	90	...	...	...	...	13.8	−	8	44.5	5	−14.0	4	17.6	...	...	...		...		...			...					...			2.53		0.80	6	22	0	0	0
*Whitehead	45 15	61 8	20	...	...	...	...	18.7	−1.5	28	31.0	18	1.0	2	—	...	...	...	...	16	1	6	1	2	10	16	32	0	84	...	...		1.51	−3.04	0.70	3	25	0	0	4
a Wolfville	45 7	64 21	...		...	...		16.4	−1.2	10	45.2	5	−8.0	13	16.6		...	...		1	8	0	6	1	7	14	15	1	56	...			3.35		1.40	10	18	3	0	0
Yarmouth	43 50	66 2	65	30.03	30.52	29.55	0.97	20.9	1.9	30	43.7	4	0.8	11	13.0	...	...	...		16	8	8	2	2	2	3	10	5	56	...			2.67	−1.50	0.61	17	11	0	1	0
P. E. Island—																																								
Charlottetown	46 14	63 10	38	29.98	30.64	29.48	1.16	11.0	1.1	35	40.0	27	−10.5	13	16.0	...	...	...	...	5	3	6	1	2	8	19	4	8	56		...		4.65	−0.9	0.44	8	20	4	0	0
Charlottetown (2)	46 14	63 7	75			...	...	13.1		1	40.0	5 27	−9.0	13	16.3		...	...				...	...							...	...		1.17	—	0.42	7	21	0	0	0
Hamilton	46 25	63 48		...	...	...	...	10.5	−5.8	14	40.0	5	−10.0	12	13.4	...		...	...	3	1	0	0	2	12	7	3	0	28	...			0.45	−3.06	0.10	2	26	0	0	0
Newfoundland—																																								
*Amour Point	51 28	56 51																																						
Burin	47 0	55 10	27	29.84	30.62	29.45	1.17	20.0		3	42.0	18	−6.0	3	19.5	...	...	...	...	11	4	0	0	6	9	11	15	0	56	...			4.44		0.60	20	8	0	0	1
*Cape Norman	51 38	55 52																																						
Fogo	49 43	54 17	30	29.78	30.65	28.98	1.67	13.6		2	35.0	5	−1.0	7 14	11.2	...	...	...		9	5	1	4	4	6	10	12	5	56	...			5.02	—	1.00	16	12	3	0	0
*Point Rich	50 42	57 25	35																																					
Port aux Basque	47 35	59 10	27	29.86	30.64	29.22	1.38	14.7		3	35.0	5	0.5	3 14	12.1	...	...	...		8	9	1	4	2	4	15	19	0	56				3.97		0.99	19	9	0	0	1
St. John's	47 34	52 42	125	29.71	30.56	29.03	1.53	17.9	−5.1	38	36.0	6	0.0	7	13.8			7	11	14	3	2	4	6	11	9	8	2	56	...			3.28	−2.40	0.81	12	16	0	0	0
Bermuda—																																								
Prospect	32 47	64 30	151	30.17	30.40	29.92	0.48	64.5	4.4	20	71.8	8	48.0	17	10.8	...	...	...		8	4	1	6	8	6	8	11	1	56				4.18	−3.64	0.30	12	16	0	1	

PRECIPITATION AT STATIONS REPORTING RAIN, SNOW, WEATHER, &c., DURING FEBRUARY, 1911.

STATIONS.	RAINFALL.					SNOWFALL.				REMARKS.
	Amount in inches	No. of Days '01 or over	No. of Fair Days	Heaviest Fall in Month	Date	Amount in inches	No. of Days.	Heaviest Fall in Month	Date.	
BRITISH COLUMBIA—	in.			in.		in.		in.		
Alkali Lake						2·5	2	1·7	3	
Annis	R	1	15	R	11	23·1	12	8·3	3	
Beaver Lake	1·02	7	21	0·35	12					
Coquitlam	1·17	9	19	0·88	12	*	4	*	2-24	
Denman's Island	2·67	5	23	0·79	12					
Ferguson						22·0	4	9·0	5	
Goldstream Lake	1·56	13	11	0·39	13	8·5	4	4·0	5	
Grand Forks	0·19	2	19	0·14	11	7·0	7	2·5	23	
Hornby Island	0·89	6	24	0·83	14	1·0	1	1·0	3	
Hydraulic						15·0	7	6·0	2	
Jordan River	3·99	15	10	1·20	13	2·5	3	1·5	5	
Jordan River (Bear Creek)	1·89	7	10	0·80	7	35·8	11	9·0	12	
LittleQualicum(French Creek, V.I.)	1·62	4	23	0·59	9	3·0	1	3·0	1	
Monte Creek						1·5	2	1·0	18	
Naas Harbour						29·0	8	8·0	5	
Skidegate	0·25	1	14	0·25	17	32·6	13	6·2	17	
Swift River Dam										
ALBERTA—										
Bardo						*				
Bismark						3·9	3	1·7	26	
Bruederheim						5·5	4	2·0	25	
Bittern Lake						2·8	3	1·8	2	
Bantry										
Brooks						7·4	8	3·0	26	
Conjuring Creek										
Coutts										
Campsie						2·8	6	1·0	1	Aurora on 1, 21, 22, 23. Fog
Caldwell						26·9	8	6·0	2	Fog on 15. [on 17, 18.]
Dorenlee						3·0	3	1·0	2-26	
Elkwater										
Grassy Lake						1·0	1	1·9	26	
Jumping Pound						2·1	3	1·0	15	
Lacombe	0·00					0·0				
Langdon										
Loch Sloy						15·1	7	7·0	25	Aurora on 21, 22, 23, 24. Fog
Lineham						2·0	3	1·5	27	on 5.
Lyndon						14·1	3	6·1	24	
Minda (Many Berries Ranch)						0.5	1	0·5	25	
Macleod						8·3	5	3·0	24	Aurora on 21, 22, 23.
Maycroft						13·5	5	5·3	2	Fog on 18.
Mayton										
Okotoks						6·3	4	3·5	25	
Ponoka						6·0	2	3·0	3-26	
Seven Persons										
Sion						3·8	4	2·0	25	Aurora on 1, 4, 5, 6, 7, 15, 16,
Tilley										17, 18, 19, 20, 21, 22, 23, 24, 28.
SASKATCHEWAN—										
Carmichael						11·8	5	4·5	1	
Coulee						3·8	2	2·8	25	
Elm How						3·5	3	2·0	7	
Gull Lake						5·0	3	3·0	23	
Hanley										
Kindersley						4·1	7	1·0	1-17	Fog on 14, 16, 17, 18.
Kelvinhurst						1·5	2	1·0	1	
Last Mountain										
Maple Creek						6·8	7	2·0	1	
Willow Creek						3·5	2	2·0	1	
MANITOBA—										
Cartwright						3·0	4	1·5	2	Aurora on 1, 22, 23, 24, 25, 27.
Deloraine						6·0	4	2·5	6	
Gretna						9·5	4	4·0	1-15	
Norquay						3·8	5	1·5	7	
Rapid City						6·1	5	3·1	2	Aurora on 21, 22, 23, 25, 26.
ONTARIO—										Fog on 12, 13.
Arden										
Deer Park	0·12	2	20	0·10	17	17·8	6	9·8	7	
Dutton	0·10	1	25	0·10	17	2·0	2	1·0	7-26	
Emsdale	0·27	1	16	0·27	18	8·5	11	1·8	22	
Georgetown	0·29	3	16	0·18	*	18·1	9	8·6	6	Aurora on 28.
Grantham	0·40	3	16	0·26	17	15·8	9	6·0	15	
Grand Valley	0·06	2	14	0·03	18-27	18·0	12	5·0	7	
Goderich	0·10	2	22	0·20	17-27	6·0	4	3·0	1	
MacCue	0·10	1	24	0·10	26	6·0	3	4·0	2	
Orangeville	0·31	1	13	0·31	17	35·2	14	14·2	7	
Princeton	0·50	1	24	0·50	17	16·0	3	8·0	14	Thunder on 17.
Sydenham						16·0	5	6·0	6	
Strathroy	1·31	3	17	0·61	17	12·0	8	4·0	6	
Watford	0·73	4	24	0·45	14					
Westport						10·8	7	4·5	7	
Wooler						4·5	3	2·0	4-7	
Westminster	0·23	1	25	0·23	18	8·0	2	5·0	6	
Wiarton	0·82	2	18	0·58	17	13·5	8	3·0	6	
Wesley	0·41	3	12	0·31	17	15·5	13	2·0	5-14	
QUEBEC—										
Timiskaming						22·0	8	13·5	1	
Kipawa										
NEW BRUNSWICK—										
Point Escuminac	0·40	1	24	0·40	5	3·9	3	3·2	5	Fog on 10.

MEAN PROPORTION OF BRIGHT SUNSHINE REGISTERED IN EACH HOUR OF THE DAY IN THE MONTH OF FEBRUARY, 1911.

STATIONS.	Hours Ending														
	6 a. m.	7 a. m.	8 a. m.	9 a. m.	10 a. m.	11 a. m.	Noon.	1 p. m.	2 p. m.	3 p. m.	4 p. m.	5 p. m.	6 p. m.	7 p. m.	
Victoria		·01	·18	·29	·38	·43	·51	·53	·49	·39	·31	·15			
Nanaimo		..	·15	·21	·29	·37	·38	·32	·36	·38	·33	·16	.		
Vancouver		·01	·10	·18	·25	·32	·35	·34	·37	·40	·38	·29	·02		
Agassiz			·07	·20	·36	·33	·38	·39	·34	·38	·36	·17	·02		
Tranquille															
Summerland		·01	·25	·34	·42	·52	·58	·53	·50	·44	·25	·08	.		
Kamloops		..	·05	·29	·45	·62	·70	·65	·61	·44	·31	·01	.		
Edmonton		.	·20	·52	·60	·70	·78	·77	·75	·66	·60	·29	.		
Lethbridge		·01	·32	·49	·67	·73	·62	·62	·55	·47	·31	·03	....		
Lacombe		...	·10	·30	·41	·61	·63	·70	·70	·75	·72	·48	·02		
Medicine Hat		...	·18	·43	·57	·60	·61	·67	·67	·66	·57	·32	.....		
Fort Vermilion		.....	.....	·15	·55	·63	·61	·66	·71	·60	·20	....			
Battleford		.....	T	·25	·58	·76	·75	·74	·73	·67	·52	·19	..		
Indian Head		....	·03	·15	·30	·47	·61	·71	·68	·65	·57	·23	..		
Moosejaw		·01	·10	·25	·51	·68	·75	·79	·78	·69	·61	·33	....		
Rosthern		....	·09	·50	·63	·73	·75	·76	·73	·65	·65	·54	·03		
Brandon		·01	·32	·42	·63	·67	·69	·72	·64	·61	·21	·04			
Winnipeg		....	·15	·27	·43	·49	·48	·56	·60	·54	·51	·53	·02		
Haileybury		T	·10	·28	·37	·43	·38	·40	·41	·40	·36	·20	·01		
Woodstock		. .	·11	·15	·19	·30	·39	·43	·40	·41	·35	·18	·01		
Lindsay		....	·07	·22	·31	·39	·40	·41	·42	·38	·15	·01	.		
Barrie		....	·13	·19	·25	·27	·31	·39	·39	·38	·29	·08	.....		
Toronto		.....	.....	·12	·22	·32	·31	·37	·31	·30	·32	·05			
Kingston		·05	·22	·35	·41	·44	·43	·46	·34	·26	·15	·15	·02		
Ottawa		.....	·28	·18	·46	·46	·46	·49	·49	·41	·35	·19			
Montreal		.....	·04	·20	·31	·35	·38	·58	·34	·18	·06	.....			
Quebec		....	·23	·36	·45	·54	·58	·59	·58	·46	·52	·26	....		
Sherbrooke		....	·01	·11	·29	·31	·47	·51	·47	·50	·47	·39	·15		
Frederieton		....	·02	·31	·63	·68	·65	·65	·61	·61	·63	·59	·46	·03	
Charlottetown		...	·21	·38	·53	·66	·65	·63	·57	·50	·52	·38	·03		

—	Victoria.	Nanaimo.	Vancouver.	Agassiz	Tranquille.	Summerland.	Kamloops.	Edmonton.	Lethbridge.	Lacombe.	Medicine Hat.	Ft. Vermilion.	Battleford.	Indian Head.	Moosejaw	Rosthern.	Brandon.	Winnipeg.	Haileybury.	Woodstock.	Lindsay.	Barrie.	Toronto.	Kingston.	Ottawa	Montreal.	Quebec.	Sherbrooke.	Frederieton.	Charlottetown.		
Registered duration in hours.	101	83	85	85	..	110	116	164	136	152	119	116	115	130	139	109	139	123	93	82	78	76	83	92	111	63	131	105	105	111	..	..
Percentage of possible duration %	37	29	30	30	..	39	33	60	48	55	53	15	53	46	55	61	49	44	33	28	30	26	28	32	39	25	46	36	37	49	..	..
Difference from average	+ 9	+ 2	..	+ 8	..	..	..	..	..	..	..	..	+ 1	- 9	..	..	+ 2	- 1	..	- 2	- 5	- 2	- 8	- 1	- 2	- 5	+10	..	- 11	+10	..	..
Maximum percentage in one day	94	90	97	81	..	89	80	92	89	97	92	75	83	87	95	98	92	91	86	87	71	81	86	91	91	96	89	91	96	95	..	..
Date of maximum	28	26	26	26	..	27	26	28	23	23	8	18	15	21	26	21	26	26	12	28	19	5	5	5	19	3	11	15	28	6	..	..
No. of days completely clouded	4	13	11	12	..	6	4	2	3	2	2	1	1	2	2	1	1	8	5	10	11	9	8	11	8	11	5	6	3	3	..	..

Aurora recorded:—

Where the class of aurora is noted by the observer, it is given, (I), being the brightest, (IV) the feeblest in brilliancy.

1. Waitefield, IV; Aweme, III; Aitkensville, IV; Ninga, Cartwright, III; Sion, II; Campsie, III. Fort Vermilion, Fort St. James.
2. Pembina, Aweme, III.
3. Pembina, Fort Vermilion.
4. Pembina, Schreiber, IV; Aitkensville, IV; Sion.
5. Schreiber, IV; Sion.
6. Sion, Crescent Lake, IV; Fort Vermilion.
7. Threehills Creek, II; Waitefield, II; Sion, Peace River Crossing, IV.
9. Spirit River.
10. Spirit River.
12. Brownhill, IV.
13. Grand Manan, IV.
14. Grand Manan, IV; Fort Vermilion.
15. Pembina, Sion.
16. Waitefield, IV; Aitkensville, IV; Sion.
17. Hillsdown, IV; Threehills Creek, II; Waitefield, III; Aitkensville, III; Sion, Peace River Crossing, IV; Fort Vermilion.
18. Hillsdown, IV; Threehills Creek, IV; Pembina, Waitefield, IV; Schreiber, IV; Aitkensville, IV; Bruce Mines, IV; Treherne, III; Quebec, IV; Sion, III; File Hills, Muenster, IV; Fort Vermilion.
19. Pembina, Aweme, IV; Minnedosa, IV; Sion, Brownlee, Luseland, Saltcoats, III.
20. Brandon, Threehills Creek, I; Pembina, Waitefield, III; Schreiber, IV; Aweme, III; Aitkensville, IV; Brandon, Bruce Mines, IV; Treherne, IV; Gravenhurst, IV; Sion, III; Crescent Lake, IV; Chaplin, IV; Luseland, Muenster, IV; Melfort, IV; Oliver, Prince, II; Waseca, Stanley, IV; Fort Vermilion, Fort St. James; Haileybury III.
21. Hillsdown, III; Halkirk, Gilt Edge, IV; Alix, Loch Sloy, Threehills Creek, I; Lunnford, Waitefield, I; Schreiber, IV; Aweme, I; Aitkensville, I; Rapid City, Macleod, Kakabeka Falls, I; Bruce Mines, I; Treherne, III; Truro, IV; Minnedosa, IV; Sydney, I; Grand Manan, IV; Charlottetown, IV; Sion, II; Brownlee, Crescent Lake, III; Chaplin, I; Estevan, II; Foxleigh, Luseland, Glenbryan, I; Muenster, I; Melfort, IV; Oliver, Prince, I; Waseca, Saltcoats, III; Campsie, III; Stanley, IV; Fort Vermilion, Fort St. James; Wolfville III.
22. Hillsdown, III; Halkirk, Gilt Edge, II; Loch Sloy, Threehills Creek, II; Pembina, Waitefield, I; Schreiber, III; Aweme, I; Aitkensville, II; Carberry, Rapid City, Cartwright, II; Macleod, Lake Talon, Kakabeka Falls, IV; Montague, Treherne, IV; Gravenhurst, IV; Truro, IV; Quebec, IV; Minnedosa, I; Sion, II; Peace River Crossing, IV; Crescent Lake, IV; Chaplin, II; Foxleigh, Lloydminster, Luseland, Glenbryan, I; Muenster, IV; Melfort, IV; Oliver, Waseca, Saltcoats, III; Campsie, I; Stanley IV; Fort Vermilion, Fort St. James: Haileybury IV.
23. Hillsdown, III; Loch Sloy, Threehills Creek, III; Pembina, Lunnford, Waitefield, III; Schreiber, IV; Aweme, II; Aitkensville, III; Rapid City, Cartwright, III; Macleod, Treherne, IV; Minnedosa, I; Sion, III; Peace River Crossing, IV; Brownlee, Crescent Lake, IV; Chaplin, II; Foxleigh, Lloydminster, Luseland, Glenbryan, I; Prince, IV; Campsie, II; Dawson, IV; Spirit River, Fort Vermilion, Fort St. James.
24. Hillsdown, IV; Alix, Brandon, Loch Sloy, Threehills Creek, III; Pembina, Waitefield, II; Aweme, IV; Aitkensville, III; Carberry, Brandon, Cartwright, IV; Chicoutimi, Minnedosa, I; Sion, Foxleigh, Prince, II; Waseca, Dawson, IV; Spirit River.
25. Threehills Creek, III; Waitefield, IV; Aweme, IV; Rapid City, Cartwright, IV; Treherne, IV; Almasippi, Stonecliffe, II; Brownhill, III; File Hills, Crescent Lake, IV; Foxleigh, Oliver, Prince, III; Waseca; Dawson, IV; Spirit River; Haileybury IV.
26. Hillsdown, IV; Threehills Creek, III; Pembina, Waitefield, II; Aweme, I; Aitkensville, III; Rapid City, Treherne, IV; Almasippi, Minnedosa, I; Peace River Crossing, IV; Brownlee, Crescent Lake, IV; Chaplin, II; Melfort, IV; Prince, III; Waseca, Saltcoats, IV; Fort Vermilion.
27. Halkirk, Gilt Edge, III; Threehills Creek, III; Pembina, Waitefield, II; Aweme, I; Aitkensville, III; Cartwright, IV; Lake Talon, IV; Lakefield, Almasippi, Chicoutimi, Quebec, IV; Winnipeg, II; Chaplin, II; Glenbryan, I; Muenster, IV; Melfort, IV; Oliver, Prince, IV; Saltcoats, IV; Haileybury III.
28. Pembina, Georgetown, III; Montague, Clinton, I; Lucknow, IV; Chicoutimi, Truro, IV; Quebec, III; Sion, III; Crescent Lake, IV; Luseland, Prince, IV; Dawson, IV; Babine Lake; Haileybury IV; Wolfville IV.

Thunder recorded:

4. Yarmouth.
17. Port Burwell, Birnam, Princeton, Port Stanley.
24. Bermuda.

FORECASTS FOR FEBRUARY, 1911.

The forecasts issued by this office at 11 p.m. each night are posted up at every telegraph station in Canada, and are for the 24 hours beginning at 8 a.m. the following day.

The number of these predictions issued during the month was 1151. These were divided as follows :—

District.	No. Issued.	Verified.			
		No. Fully	No. Partly	No. Not	Per-centage.
Alberta	78	53	20	5	80·7
Saskatchewan	79	58	15	6	82·9
Manitoba	79	62	13	4	86·7
Lake Superior	96	74	20	2	87·5
Lower Lake Region	106	86	17	3	89·1
Georgian Bay	106	83	20	2	88·6
Ottawa Valley	98	75	17	6	85·2
Upper St. Lawrence	98	74	20	4	85·7
Lower St. Lawrence	98	79	11	8	86·2
Gulf	98	75	19	4	86·2
Maritime Provinces West	108	87	16	5	88·0
Maritime Provinces East	108	85	18	5	87·0
Total	1151	891	206	54	86·1

In order to obtain the percentage of verification of the predictions, the number partly verified is divided by two and added to the number fully verified, and the result divided by the total number issued.

In ascertaining to what extent the predictions have been verified, the reports from the agents at all observing stations, as well as the telegraphic reports, are used.

R. F. STUPART, Director.

Meteorological Office, Toronto,
April 28, 1911.

DEPARTMENT OF MARINE AND FISHERIES, CANADA.

METEOROLOGICAL SERVICE.

Monthly Weather Review.

VOL. XXXV. MARCH, 1911. No. 3.

INTRODUCTION.

In compiling the present Review the principal data made use of are the telegraphic reports of observations received at this office for the purpose of weather forecasting, and reports by mail from voluntary observers and storm signal agents. For the data used in tracing the paths of areas of high and low pressure in the United States, we are indebted to the Chief of the Weather Bureau, Washington, D.C.

GENERAL SYNOPSIS.

On the southwestern extremity of Vancouver Island and on the Queen Charlotte Islands, the mean temperature of March was somewhat less than normal. Elsewhere in the Province of British Columbia the month was warmer than the average, by 1° to 3° in the western and central portions and by 5° to 6° in the extreme southeastern portion, where conditions during the month were similar to those which obtained in Alberta. During the first week temperatures were quite low. Zero to 9° below was recorded on the higher levels to the east on the first two days, and 10° to 25° above zero on the lower levels to the west and on the coast. The maximum temperatures varied between 42° and 70°, but 60° was reached at the majority of the stations on the 18th, 22nd or 30th. The precipitation of the month appeared to be deficient on Vancouver and on the lower mainland, but in excess of the normal in the Cariboo district.

In the Western Provinces the weather of March was very mild. The mean temperature in Alberta and Saskatchewan exceeded the normal by from 8° to 13° and in Manitoba by from 7° to 9°. In Alberta temperatures of zero or below occurred on an average of three days only during the month, and at many points not at all. The latter half of the month was very mild. Between the 21st and 24th temperatures ranging from 50° to 70° were recorded, while 84° were registered at Medicine Hat on the 23rd. The total precipitation in Alberta was much less than normal, except at Calgary.

The lowest temperatures of the month occurred on the 4th, 5th, 14th and 15th, in Saskatchewan, when from 3° to 9° below zero were recorded. On 18 to 20 days the maximum temperatures were above the freezing point, while the highest readings of the month were, at many stations, between 50° and 65°. Very few places reported precipitation on more than three days, and the total fall was very much less than usual.

In Manitoba conditions were much the same as in Saskatchewan, although the maximum temperatures were in most instances not so high. The precipitation occurred on from one to three days in the western portion of the province and on seven days in the eastern, but was in all instances considerably less than normal.

The western Lake Superior districts experienced weather conditions similar to those which obtained in Manitoba, the mean temperature exceeding the average by 7°, while the precipitation was very scanty. In the Niagara peninsula the mean temperatures were 1° or less below average, and in Essex county about 2° below. In the remainder of that portion of Ontario, lying between the Georgian Bay, Lake Huron and Lake Erie, the normal temperature was exceeded by from 1° to 3°. In the counties lying between Lake Ontario, the Ottawa and Upper St. Lawrence rivers, less than average was recorded, the deficiency ranging from 2° at Peterborough, Prince Edward County and Kingston to 4° at Ottawa. The precipitation was either average or in excess in the peninsula of Ontario, but was deficient elsewhere in the province

In the Gulf counties of Quebec temperature conditions were nearly normal throughout the month, but along the Middle St. Lawrence and in the Eastern Townships the month was colder than usual by about 3°. In the Eastern Townships the precipitation was in excess of the normal quantity, but

elsewhere was deficient. From the 1st to the 9th, and from the 16th to the 20th, temperatures considerably below zero were registered throughout the province. The 26th, 27th and 28th were the mildest days of the month, temperatures ranging on those days from 45° to 50°.

The month was colder than usual in the Maritime Provinces, with mean temperatures from 3° to 4° below normal. Except locally on the Bay of Fundy, the precipitation was less than average.

ATMOSPHERIC PRESSURE

The mean value of the atmospheric pressure for March was below the normal throughout Canada, except in southern and southwestern British Columbia, where the average was exceeded. Departures from average were generally more than a tenth of an inch in the Western Provinces and northern districts of Ontario and Quebec, and that difference was positive over southern parts of Vancouver Island.

The range of departure was 0·29 of an inch, with extremes of —0·19 of an inch at Battleford, Sask., and 0·10 of an inch at Victoria, B.C.

HIGH AREAS.

Twelve systems of high pressure were traced; five first appeared in the vicinity of the Yukon Territory, one on the coast of Northern British Columbia, two in Northern Saskatchewan, and four on the United States Pacific coast. Many of the systems were pronounced and in their passage over the continent they usually covered great areas. Their general path was either over or to the southward of the Great Lakes, thence off the Middle Atlantic United States Coast and out to sea. The presence of such a large number of high pressure systems, accompanied as they were, for the most part, by low temperatures, tended to keep the weather very backward generally.

LOW AREAS.

Sixteen areas of low pressure were charted; six first appeared on the Alaskan coasts, three on the coast of Northern British Columbia, one each in Northern and Southern Alberta, one on the Middle United States Pacific coast, one in the Gulf of Mexico and three off the Atlantic seaboard. The depressions from the Northwest and West all traversed the continent between the 50th and the 55 h parallels of latitude, the larger number ultimately sweeping across the Maritime Provinces and Newfoundland, where they caused frequently recurring stormy conditions. The others passed northeastwards far out to sea, their accompanying bad weather being pretty well confined to Newfoundland.

WINDS, MARCH, 1911.

PROVINCE AND STATIONS.	Total Mileage.	Greatest Mileage in 24 hours.	Greatest Mileage in one hour.	Number of Gales.	Number of Strong Winds.	Number of Fresh Winds.	General Direction.
British Columbia.							
Victoria	5191	418	37	3	4	12	S. to W.
Prince Rupert	4016	475	35	1	3	6	E., S.
Kamloops	3546	386	24	0	2	7	Variable.
Triangle Island	10014	813	84	4			
Alberta.							
Sulphur Mt., Banff	18284	1122	68	6	11	3	S. to W.
Edmonton	4909	284	26	0	7	12	S.W. to N.W.
Saskatchewan.							
Prince Albert	5175	368	31	1	4	12	S.E., S.W., N.W.
Battleford	8644	590	59	7	7	9	S.E., W., N.W.
Swift Current	9567	554	44	3	13	5	S., W., N.W.
Qu'Appelle	6891	345	24	0	7	16	S.W., N.W.
Manitoba.							
Winnipeg	11382	699	43	5	16	7	N., W.
The Pas	6931	600	49	2	7	7	E., S., W.
Ontario.							
Port Arthur	8826	557	33	4	11	11	S.W., W., N.
Woodstock	8423	540	28	1	12	15	S.E., S.W., N.W.
Parry Sound	6410	388	21	0	4	21	S.E., S.W., N.W.
Toronto	10758	649	45	6	10	10	E., W., N.W.
Kingston	3960	187	14	0	0	9	N.E., S.E., S.W.
Quebec.							
Montreal	12267	685	39	5	15	8	S.E., S., W.
Quebec	9620	938	60	4	11	10	S.W., W.
Father Point	11119	965	65	7	7	7	S.W., N.W.
Maritime Provinces.							
Pt. Le Preaux	13237	926	53	5	9	3	S.W., N.W., N.
St. John	10843	718	52	5	12	7	S., S.W., N.W.
Fredericton	6889	471					S.W., W., N.W.
Halifax	10058	638	46	3	9	8	S.W., W., N.W.
Flat Pt	11658	659	41	5	14	6	S.W., W., N.W., N.
Charlottetown	6614	605	36	3	6	19	S., W.

TEMPERATURE.

Over the greater part of British Columbia the mean temperature of March was higher than normal; by 1° to 3° in the western and central portion, and by 5° to 6° in the extreme southeast. The month was very mild in the Western Provinces and the Lake Superior districts of Ontario, the mean temperatures exceeding average by from 7° to 13°. In the Niagara peninsula and the greater part of Eastern Ontario, the month was colder than usual by from 1° to 4°, in western and central Quebec and the Maritime Provinces by from 3° to 4°.

The highest and lowest temperatures recorded in each Province during the month of March, 1911, were:

	HIGHEST.	LOWEST.
British Columbia,	70° at Alberni on the 14th,	—29° at Atlin on the 10th.
Alberta,	84° at Medicine Hat on the 23rd,	—25° at Peace River Crossing on the 11th.
Saskatchewan,	64° at Glenbryan on the 21st,	—25° at Filo Hills on the 3rd.
Manitoba,	58° at Morden on the 24th & 25th,	—22° at Oakbank on the 4th.
Ontario,	61° at Wallaceburg on the 26th,	—38° at White River on the 3rd.
Quebec,	52° at Abitibi on the 26th,	—38° at Lake Edward on the 4th.
New Brunswick,	52° at St. Stephen on the 26th and Moncton on the 27th,	—16° at Dalhousie on the 4th.
Nova Scotia,	58° at Port Hastings on the 30th,	—12° at Antigonish on the 7th.
P. E. Island,	49° at Hamilton on the 31st,	— 8° at Charlottetown on the 5th.

PRECIPITATION.

Except in the Cariboo district and locally in the mountainous portion of the province, the precipitation was less than normal in British Columbia. Over the remainder of the Dominion the amount was very scanty, especially in the Western Provinces, where in some districts precipitation occurred on one or two days only. The Peninsula of Ontario reported amounts which were normal or slightly above, as did also stations on the Bay of Fundy, but elsewhere the precipitation was deficient.

SNOW ON THE GROUND.

At the close of the month the whole of the Province of Quebec and most of northern Ontario were well covered with snow, while in other parts of the Dominion there was no snow except in the wooded portions.

PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA, MARCH, 1911.

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

STATION.	Latitude N.	Longitude W.	Elevation above sea level, in feet.	Pressure: Mean reduced.	Pressure: Highest.	Pressure: Lowest.	Pressure: Range.	Temperature: Mean.	Difference from average.	Years observ'n	Highest.	Date.	Lowest.	Date.	Mean daily range.
British Columbia				in.	in.	in.	in.								
Alberni (Beaver Creek)	49 15	124 49	300					43·6	−1·6	16	70·0	11	22·0		25·1
Agassiz	49 14	121 31	52					42·1	−0·1	19	65·0	21	29·0		19
Atlin	59 35	133 38	2240	29·93	30·52	28·94	1·58	11·5		5	40·0	1	28·5	10	16·1
Barkerville	53 2	121 35	4180	29·99	30·48	29·25	1·23	29·1	3·8	21	44·0	19	9·0	21	13·9
Bella Coola	52 40	126 51	150					38·8	+1·9	13	57·0	17	15·0	3	19·0
Babine Lake	55 38	126 26						28·0	—	3	52·0	2, 3	1·5	1	21·0
Boswell								36·8	—	1	51·5	31	19·0	1	15·1
Chilcotin (Big Creek)	51 40	123 0	3100					33·0		8	61·0	29	7·0	11, 25	26·8
Cranbrook	49 30	115 50						36·1		2	62·0	21, 22	2·0	1	21·6
Clayoquot	49 11	125 47	40					43·1	1·1	11	58·0	15	27·0	3	15·5
Cowichan (Tzouhalem)	48 25	123 42	170					43·2	—	5	59·2	30	23·4	2	20·3
Chilliwack	49 10	121 57	21					43·9	+1·2	11	65·0	15	23·0	2	19·8
Enderby	50 32	119 7	1180					36·6	—	9	65·0	29	0·0	2, 3	23·7
Fort St. James (Stuart's Lake)	54 28	124 12	2280					28·5	+7·2	18	46·5	13, 19	5·0	1	20·9
Fairview	49 11	119 36						43·8		2	73·0	31	12·0	5	22·0
Fruitvale	49 9	117 31						35·5		2	65·0	30	2·0	2	27·9
Glacier	51 14	117 29	4072					28·8	2·7	13	45·0	21	10·0	1	12·1
Golden	51 16	116 55	2550					32·6	—	8	51·0	18	6·0	1	25·0
Grand Forks										1	69·	29			
Holberg	50 39	128 18						38·6	—	2	52·0	19	23·0	3	10·1
Hedley	49 35	120 10						40·2	—	7	67·0	31	10·0	1	23·6
Hedley (Nickel Plate)								21·6	—	6	42·0	20	5·0	11	15·1
Hope	49 23	121 25						42·2	—	2	68·0	31	21·0	1	21·6
Ikeda Bay	52 17	131 7	5												
Kamloops	50 41	120 29	1215	29·98	30·52	29·41	1·11	39·1	+2·6	17	64·5	29	10·8	1	21·4
Ladner	49 5	123 4						45·0	+3·2	11	59·0	11, 30	25·0	1	13·7
Massett, Q.C.I.	53 58	132 9	30					38·1	−1·2	13	48·0	17, 18	28·0	7, 10	10·5
a Nanaimo	49 10	123 37	125	29·90	30·46	29·47	0·99	42·1	−0·7	13	59·0	31	21·2	2	17·9
Nicola Lake	50 9	120 39	2120					31·4	−1·6	16	61·0	21, 23	4·0	1	30·0
North Nicomen	49 12	122 2	59					44·3	−1·6	19	63·0	15, 19	26·0	2, 3	19·6
New Westminster	49 13	122 54	330					43·5	1·0	17	59·0	22	27·0	1	17·2
Nelson	49 29	117 21	1760					39·1		8	65·0	29	12·0	1	21·7
Needles								37·6		2	61·0	31	4·0	2	23·0
Okanagan Mission (Kelowna)	49 52	119 29	1200					37·0	+0·2	12	62·0	30	3·0	1	20·8
Princeton	49 29	120 30	1650					31·6	−1·8	16	66·0	31	6·0	1	28·8
Penticton	49 29	119 35						38·4		5	61·5	29	11·0	1, 3	21·1
Pemberton Hatchery	50 20	122 53						39·3	—	3	59·0	20	19·0	1, 3	20·3
Prince Rupert	54 18	130 18	170	29·95	30·69	29·31	1·26	37·0		2	49·0	21	27·0		9·1
Quesnelle	52 59	122 30	1700					32·1	+1·5	11	57·0	30	5·0	1	25·1
Revelstoke	51 0	118 6	1476					31·2	0·9	11	66·1	19	1·0	2, 3	23·1
Rossland	49 5	117 48	3400					36·7	—	8	57·5	29	18·0	1	15·0
Ruskin (Stave Falls)	49 16	122 23	125					42·7		2	60·0	29	25·0	1, 2	18·3
Salmon Arm	50 42	119 35	1152					36·3		9	64·0	29	5·0	1	21·6
Steveston (Garry Point)	49 21	123 17						40·9	0·3	16	53·5	29	25·0	1, 3	14·0
Swanson Bay	53 37	128 53						35·3	—	5	43·0	15	20·0	2	8·3
Salt Spring Island	48 50	123 20													
Summerland	49 37	119 0	1100					38·3		4	62·0	27	10·0	1, 3	19·0
Sooke	48 41	123 41	25					42·8		1	63·0	16, 21	21·0	4	21·0
Stewart	56 1	130 1	215					31·1		1	42·0	30	18·0	7	10·2
Tobacco Plains (Elko)	49 1	115 5	2684					40·1	6·0	16	61·1	31	11·0	1	19·2
Triangle Island	50 52	129 5	680	30·08	30·59	29·51	1·08	36·7		1	41·0		20·0	10, 11	3·2
a Tranquille	50 41	120 29		28·76	29·50	28·22	1·28	39·2	—	3	62·0	20, 29	10·0	1	22·2
Vernon (Coldstream Ranch)	50 14	119 15	1575					36·8	+1·1	16	62·0	29	5·0	1	19·3
Victoria	48 24	123 19	85	30·08	30·51	29·51	1·00	43·7	0·5	18	57·1	15	27·2	2	16·0
Vancouver	49 17	123 5	136	30·09	30·52	29·53	0·99	42·9		7	59·6	22	27·9	1	14·9
Winter Harbour	50 32	128 3						41·2	+1·8	16	53·0	15, 16	28·0	1, 7	11·3
Wilmer	50 31	116 11						31·0	—	2	63·0	31	9·0	1	27·8

STATION.	Mean temperature of dewpoint.	Mean relative humidity.	Mean amount of cloud.	No. of days completely clouded.	Wind from N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.	Total number of observations.	Velocity: Mean miles per hour.	Highest day's velocity.	Date and direction from.	Precipitation: Amount.	Difference from average.	Heaviest fall in month.	Days with ·01 or more.	No. of fair days.	No. of auroras.	No. of thunder storms.	No. of fogs.
Alberni (Beaver Creek)																		1·74	−4·10	0·60	9	22	0	0	0
Agassiz																		2·65	−2·16	0·60	11	20	0	0	0
Atlin			6	3	6	1	8	7	11	0	3	7	16	62	5·2	16·0	18 S.	1·17	—	0·37	6	25	0	0	0
Barkerville			6	12	0	0	0	5	2	3	5	0	17	62	1·9	40·0	—	1·10	2·03	0·80	15	16	0	0	0
Bella Coola																		3·80	0·79	0·75	13	18	0	0	2
Babine Lake																		0·97	—	0·2	5	26	0	0	0
Boswell																		0·99	—	0·21	9	22	0	0	0
Chilcotin (Big Creek)																		0·33	—	0·11	3	28	2	0	0
Cranbrook																		2·33	—	0·6	5	26	0	0	0
Clayoquot																		6·03	−5·51	1·80	13	18	0	0	0
Cowichan (Tzouhalem)																		0·75		0·24	10	21	0	0	0
Chilliwack																		3·51	1·18	0·92	12	19	2	0	2
Enderby																		0·91		0·17	9	22	0	0	0
Fort St. James (Stuart's Lake)																		0·73	−0·11	0·22	5	26	2	0	0
Fairview																		0·28	—	0·10	4	27	1	0	0
Fruitvale																		1·10		0·32	7	24	0	0	0
Glacier																		7·8	−0·31	1·05	15	16	0	0	0
Golden																		0·18		0·15	6	25	0	0	0
Grand Forks																		0·31	—	0·11	7	21	0	0	0
Holberg																		12·2	—	1·72	19	12	0	0	0
Hedley																		0·8	—	0·40	3	28	0	0	0
Hedley (Nickel Plate)																		0·90	—	0·60	3	28	0	0	0
Hope																		2·78		1·07	7	24	0	0	0
Ikeda Bay																									
Kamloops		83	5	3	3	3	18	7	8	5	12	1	5	62	4·3	25·0	9 S.E.	0·12	−1·30	0·12	1	30	0	0	0
Ladner																		1·76	1·22	0·5[illegible]	[illegible]	[illegible]	0	0	0
Massett, Q.C.I.																		1·75	−1·48	0·50	19	12	0	0	0
a Nanaimo		90	4	5	1	2	2	8	3	4	5	11	26	62	3·8	20·0	21 W.	0·61		0·4	5	26	0	0	0
Nicola Lake																		0·10		0·06	2	29	0	0	0
North Nicomen																		5·10	1·17	1·75	10	21	0	0	1
New Westminster																		3·31	−2·[illegible]	1·22	10	21	0	0	6
Nelson																		1·2	—	0·38	7	24	0	0	0
Needles																		0·60		0·20	4	27	0	0	0
Okanagan Mission (Kelowna)																		0·49	0·01	0·17	2	29	1	0	0
Princeton																		0·50		0·18	4	27	1	0	0
Penticton																		0·32		0·17	2	29	0	0	0
Pemberton Hatchery																		1·00	—	0·20	5	26	0	0	0
Prince Rupert		91	9	24	11	2	9	6	12	1	1	1	18	62	5·1	22·0	12 S.E.	19·92	—	1·48	23	8	0	0	2
Quesnelle																		0·72	0·25	0·12	2	29	0	0	0
Revelstoke																		2·98	0·62	1·2	10	21	0	0	0
Rossland																		1·10		0·18	8	23	0	0	0
Ruskin (Stave Falls)																		6·31	—	1·80	11	20	0	0	0
Salmon Arm																		0·92		0·32	5	26	1	0	1
Steveston (Garry Point)																		1·13	1·33	0·12	9	22	0	0	2
Swanson Bay																		26·18		5·12	21	10	0	0	0
Salt Spring Island																									
Summerland																		0·47		0·37	2	29	3	0	0
Sooke																		0·75	—	0·2[illegible]	4	27	0	0	0
Stewart																		8·74	—	2·18	18	13	0	0	0
Tobacco Plains (Elko)																		1·61	0·49	0·70	4	27	0	0	0
Triangle Island		97	10	26	6	0	8	1	0	21	11	[illegible]	0	62	15·[illegible]	72·0	22 [illegible]	1·88		1·07	21	10	0	0	18
a Tranquille		76	1	1	1	32	7	2	3	6	2	6	0	62				0·16		0·09	2	29	0	0	0
Vernon (Coldstream Ranch)																		0·75	0·01	0·25	4	27	0	0	0
Victoria		78	5	3	15	5	1	2	11	11	7	2	5	62	7·8	36	10 S.W.	1·[illegible]	−0·78	0·79	9	22	0	0	4
Vancouver		80	6	1	1	2	16	1	2	1	7	13	18	62	3·3	15·0	10 W.	3·0[illegible]	—	1·21	11	20	0	0	5
Winter Harbour																		19·2[illegible]	+1·33	1·60	17	14	0	0	0
Wilmer																		0·89	—	0·30	4	27	0	0	0

YUKON :—																																								
Carcross	60	11	131	31	2171					11·2	—	4	40·0	16-29	−33·0	10	22·5																0·58	—	0·30	4	27	0	0	0
Dawson	64	4	139	20	1200	30·08	30·86	29·32	1·54	4·0	—	9	37·0	28	−47·0	13	23·0	5	4	9	0	0	1	6	0	0	7	39	62				0·77	—	0·11	11	20	7	0	0
White Horse	60	45	135	0	2075																																			
ALBERTA—																																								
Athabasca Landing	54	43	113	17	1650					24·9	—	8	51·0	1-19	−12·0	3	25·2			1	2	2	0	4	2	11	9	0	31				1·16	—	0·11	4	27	0	0	0
Alix	52	21	113	10						28·3	—	2	64·0	23	−8·0	5	25·6			2	0	0	6	3	5	6	6	3	31				0·92	—	0·27	7	24	1	0	1
Banff	51	10	115	34	1542	29·93	30·51	29·22	1·29	32·4	+10·4	16	52·1	22	5·0	5	17·6		9	2	8	0	3	0	33	5	0	10	62				0·54	−0·94	0·15	9	22	1	0	0
Blairmore	49	40	114	30	4225					33·5	—	1	57·7	19	−2·3	4	22·3																0·20	—	0·20	1	30	0	0	0
Calgary	51	2	114	2	3389	29·86	30·58	29·30	1·28	34·6	+11·8	27	64·0	19	10·0	4—11	20·1		4	1	11	2	10	1	3	6	11	17	62				1·04	+0·30	0·50	9	22	0	0	0
Cardston	49	12	113	18						31·7	—	7	60·0	19-29	15·0	10	22·9																0·30	—	0·20	2	29	0	0	0
Didsbury	51	10	114	8	3300					36·3	—	9	68·0	19	2·0	8	23·2			1	3	2	3	7	4	0	9	2	31				1·55	—	0·50	7	24	0	0	0
*a*Dunvegan	55	56	118	35	1305																																			
Daysland	55	52	112	17																																				
Edmonton	53	33	113	30	2158	29·86	30·65	29·18	1·47	32·5	+11·0	29	63·0	23	−1·0	11	22·8		7	7	6	1	8	7	7	12	11	3	62				0·39	0·38	0·16	7	21	4	0	0
Eckville	52	23	114	22						28·0	—	4	59·0	24	0·0	9—12	24·5																0·52	—	0·12	4	27	0	0	0
Endiang										25·2	—	1	62·0	23	−3·0	4	22·8																0·29	—	0·15	2	29	0	0	0
Fort Vermilion	58	27	116	3						13·4	—	6	48·5	18	−35·0	11	21·7																1·45	—	1·00	6	25	9	0	0
Gleichen	50	59	112	54	2952					33·2	+ 8·8	12	67·0	19	3·0	1	21·8																0·90	—	0·40	4	27	0	0	0
Gilt Edge	52	59	110	43						21·7	—	2	56·6	23	−10·0	14	20·2																0·15	—	0·05	4	27	0	0	0
Hillsdown	52	14	113	29	2806					32·0	—	7	64·0	23	1·0	8	20·3			1	7	2	9	9	14	3	15	2	62				0·87	—	0·20	8	23	3	0	0
High River	50	35	113	53	3394					31·4	—	8	64·0	21	8·0	10	21·9																1·50	—	0·25	15	16	0	0	0
Harmattan	51	45	114	23	3500					30·0	—	4	64·0	20	−3·0	4	26·8																1·28	—	0·40	7	21	0	0	0
Halkirk, (Emsburg)										26·1	—	2	55·0	23	0·0	15	18·1			3	3	3	9	2	23	7	12	0	62				0·54	—	0·37	4	27	3	0	2
Lethbridge	49	12	112	54	2961					38·3	+ 8·1	10	68·9	20	9·8	1	23·0																0·42	—	0·17	3	28	0	0	0
Lethbridge (Exp. Farm)	49	43	112	51						38·3	—	4	70·5	19	10·5	1	23·5																0·32	—	0·13	3	28	0	0	0
Lacombe	52	58	113	44	2783					29·4	—	4	61·7	23	−3·7	8	23·5																1·01	—	0·24	8	23	0	0	1
Lawrence	50	16	113	26						35·7	—	5	68·0	19	−13·0	1	28·0																0·52	—	0·20	5	26	0	0	0
Lunnford	54	33	114	19						28·4	—	2	56·5	1	−16·0	11	21·5																0·27	—	0·22	3	28	0	0	0
Loveland	52	30	114	59						—	—	—	—	—	0·0	6	—			3	4	2	1	2	8	8	10	0	38				0·12	—	0·07	2	29	0	0	0
Medicine Hat	50	1	110	37	2161	29·91	30·65	29·26	1·39	37·7	+12·9	27	84·0	23	8·2	1	24·0		3	7	5	4	2	1	9	19	9	6	62				0·32	−0·35	0·06	4	27	0	0	0
Macleod	49	41	113	24	3128					35·7	+12·1	16	69·0	20	2·0	9	23·9			0	1	5	0	0	1	23	0	1	31				—			—	—	0	0	0
Peace River Crossing	56	15	117	15						22·4	—	4	51·0	19-23	−25·0	11	25·0																0·50	—	0·30	3	28	0	0	0
Pembina	54	12	114	0						24·3	—	4	55·0	14	−20·0	11	26·0			14	7	7	5	0	2	11	5	0	51				0·60	—	0·15	5	26	5	0	0
Pakan (Victoria)	54	0	112	31						25·7	—	7	51·0	19	−15·0	11	25·5			1	5	1	1	6	13	12	17	6	62				0·85	—	0·25	7	24	1	0	0
Pincher Creek	49	0	114	4	3750																																			
Red Deer	52	16	113	49																																				
Spirit River	55	40	118	47						26·0	—	2	52·0	1	−12·0	8—9	21·2																0·96	—	0·40	7	21	5	0	0
Threehills Creek	51	30	113	11						30·9	—	9	66·0	23	0·0	4	21·9																0·77	—	0·20	10	21	5	0	1
Wetaskiwin	52	58	113	23	2480					29·5	—	9	56·0	24	2·0	5	17·9																2·10	—	1·00	7	21	0	0	0
Waitefield	53	29	111	38	2000					21·6	—	6	50·8	23	−12·3	11	22·3			5	3	11	10	4	6	18	29	7	93				0·52	—	0·17	12	19	5	0	0
SASKATCHEWAN—																																								
Battleford	52	41	108	20	1620	29·90				24·5	+11·1	20	51·0	19	−8·0	15	20·5			1	4	1	19	0	10	13	26	17	91				0·01	−0·65	0·01	1	30	0	0	0
Broadview	50	23	102	33	1960																																			
Brownlee	50	45	106	0						24·9	—	1	53·0	20	−3·8	4	19·3			3	1	1	4	4	11	3	3	1	31				0·49	—	0·35	5	26	1	0	0
Boutin										22·4	—	1	52·0	20	−17·0	6	23·5																1·05	—	0·25	9	22	5	0	0
Chaplin	50	26	106	39	2202					25·9	+10·0	25	60·0	20	−7·0	14	22·6																0·15	—	0·06	7	24	4	0	0
Cannington Manor	49	43	102	2	2064					20·2	+ 6·5	12	42·0	22 25	−13·0	4	17·9			1	0	0	7	0	4	4	15	0					0·15	—	0·30	4	27	0	0	0
Crescent Lake	50	59	102	25	1658					19·6	—	8	42·4	29	−15·0	4	21·5			4	0	0	4	3	6	7	6	1	31				0·47	—	0·10	5	26	7	0	0
Duck Lake	52	51	106	20																																				
Estevan	49	12	103	4	1858					25·4		8	55·0	22 23	−10·0	4	18·9			0	0		2	5	6	2	10	3	31				0·2	—	0·20	1	30	2	0	0
East End	49	31	108	49																																				
Foxleigh	50	37	104	29						23·2	—	2	46·0	24	−10·0	15	19·8																0·08	—	0·08	1	30	2	0	1
File Hills	51	4	103	31						21·3	—	1	51·0	25	25·0	3	27·6																0·20	—	0·20	1	30	0	0	0
Grenfell (Brownhill)	50	23	102	53	1957					23·8	—	9	48·0	25	12·0	15	20·3			3	3	2	5	5	28	4	12	0	62				0·28	—	0·10	4	27	1	0	0
Govan	51	17	104	54						22·3	—	2	48·0	21	−10·4	4	19·7																0·43	—	0·10	9	22	0	0	0
Glenbryan (Larchmount.)										27·8	—	1	63·5	21	−11·0	4	24·4			2	1	1	6	2	25	11	14	0	62				0·83	—	0·40	5	26	5	0	1
Humboldt	52	12	105	9						21·4	—	4	48·0	20	−18·0	1	17·7																0·05		0·05	1	30	0	0	0
Hubbard (Drumague)	51	5	103	24						19·5	—	5	41·0	20-30	−20·0	15	19·4																0·10		0·10	1	30	0	0	0
Indian Head	50	28	103	40	1924					21·7	+ 7·9	19	45·0	24	−11·0	4	21·2			0	7	3	7	15	22	2	31	3	93	IV	IX	14 NW	0·28	−0·37	0·23	5	26	0	0	0
Kamsack	51	30	101	52																																				
Lloydminster	53	18	110	0						20·8	—	4	48·5	24	−15·0	5—11	23·0																—	—	—	—	—	0	0	0
Lanigan	51	51	105	2																																				
Luseland										23·9	—	1	52·0	23	−17·0	5	18·6																				—	0	0	3
Moose Jaw	50	21	105	35	1759					25·5	+12·6	16	60·0	23	−10·0	4	20·1			5	0	7	9	2	9	22	12	26	93				0·06		0·05	2	29	0	0	1
Moosomin	50	0	101	37	1884					23·1	—	9	46·0	24	−10·0	15	15·9			0	0	5	5	10	2	4	5	0	31				0·20	—	0·20	1	30	0	0	0
Muenster (St. Peter's Monastery)	52	0	105	0	1870					21·5	—	5	43·0	28	−8·0	11	19·9			5	4	0	1	0	18	0	3	0	31				0·20	—	0·20	1	30	8	0	0
Melfort	52	47	104	30						21·3	—	2	49·0	21	−16·5	4	20·9																0·20	—	0·10	3	28	6	0	0
Maple Creek	49	55	109	28																																				
Orion Lake	53	52	109	59																																				
Oliver	51	46	108	40						23·4	—	1	56·0	23	−14·0	6	22·7																				—	9	0	0
Pense (Gatesgarth)	50	20	105	0	1879					21·8	+ 7·9	13	47·0	24	−14·0	11	21·4			0	2	1	3	2	4	9	10	0	31				—				—	2	0	0
Prince Albert	53	10	106	0	1132					21·7	+ 9·4	26	53·5	20	−15·0	15	22·3			3	0	1	5	7	5	8	5	28	62				0·11	−0·92	0·10	2	29	1	0	0
Prince (Meota)	51	0	108	20	170[illegible]					20·5	—	4	45·0	20	19·0	14	25·0																0·15		0·30	2	29	8	0	0
Qu'Appelle	50	30	103	47	2115	29·91				23·2	+ 8·9	27	46·0	24	−12·0	15	16·9			3	1	1	5	8	21	6	15	1	61				0·32	0·76	0·30	2	29	0	0	0
Regina	50	27	104	37	1885					22·4	+10·0	25	45·0	24	−9·0	15	18·1																0·40	−0·07	0·2	3	28	0	0	0

PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA, MARCH, 1911.

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

STATION.	Latitude N.	Longitude W	Elevation above sea level, in feet.	Pressure: Mean reduced	Pressure: Highest.	Pressure: Lowest.	Pressure: Range	Temperature: Mean	Temperature: Difference from average	Temperature: Years observed	Temperature: Highest.	Temperature: Date.	Temperature: Lowest.	Temperature: Date.	Temperature: Mean daily range.	Mean temperature of dewpoint.	Mean relative humidity.	Mean amount of cloud.	No. of days completely clouded.	Direction of wind from: N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.	Total number of observations.	Velocity of wind: Mean miles per hour.	Highest day's velocity.	Date and direction from.	Precipitation: Amount.	Precipitation: Difference from average.	Precipitation: Heaviest fall in month.	Days with .01 or more.	No. of fair days.	No. of auroras.	No. of thunder storms.	No. of fogs.
SASKATCHEWAN—*Con.*				in.	in.	in.	in.																															
Rathmullon	51	20	108	57																																		
Rosthern	52	40	106	20	1657										18·0			1	12·3	21	11·0	15	21·9										0·53		0·10	3·28	0	0	0
Swift Current	50	20	107	15	2139	29·05									30·9	+10·9	24	62·0	23	−2·0	15	17·6										0·15		0·10	2·25	0	0	0
Saskatoon	52	15	106	30	1571										32·6	+10·6	13	51·2	24	11·0	1	19·4										0·30	−0·56	0·10	6·25	0	0	0
Strassburg	51	5	104	56											32·1		1	48·0	24	7·0	15	19·8												0·10	1·25	0	0	0
Scott (Hearts Hill)	51	59	109	30																																		
Stanley Mission																																						
The Pas	53	49	101	15	890										13·5		1	17·0	13	−16·0	5	22·3										0·52		0·13	7·24	1	0	0
Waseca	53	6	109	20											21·5		3	17·0	20	15·0	15	21·0										0·25		0·10	1·25	0	0	0
Yorkton	51	11	102	29																																		
Yarbo (Fairfield)	50	39	102	1											17·8		1	41·0	26	20·0	15	22·1										0·85		0·35	6·25	5	0	1
MANITOBA—																																						
Almasippi	49	11	99	20											21·5		9	57·0	24	−9·0	1	20·5														0	0	0
*a*Aweme (St. Alban's)	49	42	99	33	1180	28·65	29·30	28·13	1·17						24·1	+ 8·5	21	48·0	25	8·0	15	22·1										0·29	−0·38	0·13	6·25	7	0	0
Brandon	49	51	99	57	1176										22·0	+ 7·7	24	48·1	24	13·1	1	21·0	1	0	1	21	0	7	0	7	18	37	2	93	1	III	HNW	0·10	−0·56	0·05	2·50	1	0	0
Berens River	52	18	97	23	710										16·0		3	17·0	25	21·0	1	27·5			11	3	12	4	15	4	3	6	1	62				0·40		0·15	3·28	0	0	0
Carberry	49	52	99	20	1258												6	—																		0·20		0·20	1·30	0	0	0
Carman	49	31	98	0	872																																			
Cypress River	49	33	99	3	1232																																			
Dauphin	51	8	100	2	957																																			
Hillview	49	55	100	33	1400										20·7	+ 7·1	25	43·0	24	−17·0	1	18·8														0	0	0
Minnedosa	50	15	99	50	1630	29·95	30·60	29·32	1·28						24·1	+ 6·2	28	41·0	25	15·6	1	20·5	5	2	5	2	2	3	0	2	8	13	27	62				0·23	−0·57	0·07	8·53	6	0	0
Morden	49	11	98	6	978										27·5		9	58·0	24	25·0	15	23·6														0·21		0·10	3·28	0	0	0
Moose Horn Bay (Aikenville)	51	15	99	33											15·6		1	49·8	9	20·5	1	28·6														0·71		0·20	7·24	6	0	0
Ninga	49	11	99	51	1649										26·6		1	52·2	20	0·0	3	21·1																1	0	0
Oakbank	49	57	96	42	800										21·3	+ 6·8	16	56·0	25	21·5	1	17·8			9	0	0	0	6	8	1	7	0	21				0·50	−0·13	0·20	3·28	0	0	0
Pipestone	49	31	100	58	1400																																			
Portage la Prairie	49	57	98	17	830										22·8	+ 6·8	24	50·0	24	25·0	7	0·11	15	21·4														0·03	−0·67	0·03	1·20	0	0	0
Portage la Prairie (?)	49	56	98	17																																				
Pierson	49	11	101	5	1531																																			
Stony Mountain	50	10	97	11	803										16·2	+ 2·7	29	47·0	26	15·0	4	21·2			10	1	0	3	20	6	2	17	0	62	2·1	4·0	11 NW	8	1·01	8	0·31	0	0	1
Swan River	52	6	101	15	1112																																			
Treherne	49	36	98	10	1212										21·5	+ 8·9	16	54·0	24	−8·0	15	20·7															0·52		0·28	7·24	2	0	0
Virden	49	51	100	55	1141																																			
Winnipeg	49	53	97	7	760	29·98	30·61	29·39	1·22						23·5	+ 8·8	37	52·5	24	11·1	3	19·7	5	2	10	0	12	1	3	2	15	15	1	62				0·28	−0·97	0·12	7·24	2	0	1
ONTARIO—																																						
Alton	43	51	80	5	1250										22·8	− 1·0	25	51·2	27	−10·8	5	22·0			7	0	11	7	17	8	11	2	0	63	1·1			2·06	+0·71	1·01	13·18	0	1	2
Aurora	43	57	79	21	881										25·5		3	52·6	26	− 3·5	5	18·1														2·16	+0·23	0·80	7·24	0	0	0
Agincourt	43	47	79	16	590										28·1	+ 0·6	17	55·1	27	0·0	16	14·6			2	1	16	5	11	4	13	11	0	63				1·91	−0·32	0·73	11·20	0	1	2
Barrie	44	23	79	41	838										23·9		1	35·3	18·9	26	4·0	16	16·5		5	1	6	5	6	13	13	4	3	32	11	93	1·1	V	15 NW	2·96	+1·70	0·97	19·12	1	1	1
Beatrice	45	8	79	20	800										21·6		0	0·36	17·0	26	12·0	5	21·7		4	8	3	0	0	9	18	4	2	27	30	93	1·1	V	15 NW	3·16	+0·11	0·80	11·20	0	0	1
Bruce Mines	46	18	83	55	595										23·7	− 0·3	13	50·0	26	10·0	3	22·6														1·50	1·88	0·20	7·24	1	0	0
Birnam	43	2	81	55	600										30·8	+ 2·5	26	52·2	26	5·0	16	13·1			11	1	10	9	11	1	1	15	0	62				3·64	+1·00	0·93	13·18	1	1	0
Brantford	43	10	80	21	750										28·9	+ 0·3	31	51·0	26	1·0	6	17·2														2·21	+0·47	0·81	5·26	0	0	1
Bloomfield	43	39	77	21	260										27·1		1·9	12·51·0	28	3·0	5	14·1														2·10		0·75	6·25	0	1	0
Bancroft	45	1	77	50											20·2		1·0	22·19·0	20	−20·0	6	26·1																	0	0	0
Copper Cliff	46	30	80	59											19·6		6	48·0	26	12·0	16	22·6														0·85	—	0·20	7·24	0	0	0
Clinton	43	32	81	37											25·6		8	51·0	27	2·0	7	16·5			0	2	5	9	13	1	9	20	0	62				3·05		1·00	15·16	2	1	0
Coldwater	44	38	79	40	600										21·8		2·0	23·53·0	27	−17·0	7	23·0														2·31	−0·25	0·65	8·23	0	0	0
Cottam	42	7	82	45	696										30·8		2·8	23·50·0	25	3·0	15	22·4			29	0	8	3	12	6	2	2	0	62				2·33	−0·11	0·80	8·23	0	0	0
Chatham	42	23	82	12	595										33·1	+ 0·9	24	52·0	11	5·0	16	18·4														2·01	−0·16	0·88	5·26	0	0	0
Cochrane	49	2	81	0	930	30·00	30·60	29·39	1·21						18·0	—	1	54·0	11	30·0	3	25·9			0	2	0	3	6	7	3	11	25	60				0·70	—	0·20	5·26	0	0	0
Collingwood	44	31	80	2																																				
East Toronto	43	35	79	18											27·9		5	52·0	27	2·0	16	21·17·1														3·38	—	1·00	6·25	0	0	0
Elora	43	41	80	24	1274										26·1	+ 2·5	11	53·0	26	3·0	5	16·17·0														2·90	+0·12	0·57	15·16	0	1	0
Gravenhurst	44	54	79	20											20·2	− 3·3	10	49·0	26	−22·2	5	25·0	1	2	7	2	6	22	12	1	7	21	12	93	2·1	5·0	16 NW	2·93	+0·42	0·10	13·18	1	0	0
Guelph	43	33	80	16	1050										27·9	+ 2·3	23	53·0	27	0·0	16	16·0														1·25	−0·42	0·35	7·24	0	0	0

ONTARIO—*Concluded.*																																										
*a*Grimsby	43	13	79	36		29·59	30·20	28·80	1·40	31·1	—	2	59·0	27	1·0	5	15·9																		3·07	—	0·53	13	18	0	0	0
Haileybury	17	29	79	39	687	29·98	30·11	29·11	1·23	20·4	— 8·1	18	55·0	26	—15·6	3	22·6					9	0	0	7	10	8	5	14	9	62	1·9	7·0	15 NW	1·28	—0·97	0·50	11	20	5	0	0
Hamilton	43	16	79	54	303					30·7	— 0·3	35	54·0	26-27	5·0	16	14·0																		1·41	—1·73	0·78	4	27	0	0	0
Haliburton	45	1	78	28	1050					20·6	— 3·7	22	52·0	26	—18·0	5	27·2																		—	—	—	—	—	2	1	0
Huntsville	45	19	79	8						21·1	—	4	56·0	26	—18·0	5	23·1																		—	—	—	—	—	0	0	0
Kenora	49	48	91	32	1102					15·9	— 4·5	12	45·0	21	—11·0	4	14·6																		—	—	—	—	—	0	0	0
Kakabeka Falls	48	29	89	26	912					21·5	—	3	60·0	25	—21·0	3	28·6																		1·10	—	0·30	5	26	2	0	0
Kingston	44	13	76	29	285	30·01	30·67	29·19	1·48	25·8	— 1·9	37	49·0	27	— 1·0	16	15·5			7	7	6	10	3	9	2	6	11	15	0	62				2·44	+0·14	0·51	17	14	0	0	0
Kinmount	44	45	78	38	920					18·1	— 6·5	12	46·0	27	—21·0	6	26·2																		1·00	—	0·30	5	26	0	1	0
Lucknow	43	56	81	30	908					21·8	— 2·8	25	50·2	26	— 1·1	7	17·7																		3·50	+0·92	0·71	10	12	3	1	1
Lake Talon	46	15	78	48						20·0	— 1·8	16	57·5	26	—20·0	5	24·7																		1·50	—1·11	0·50	6	25	3	0	2
London	42	59	81	13	808	29·97	30·62	29·23	1·39	29·5	+ 0·7	28	56·5	27	5·0	5-16	18·5					0	18	0	37	0	0	16	22	0	93				5·05	+2·23	1·00	17	14	0	0	0
Lakeside Home	43	40	79	24						29·8	—	5	47·0	26-27	1·0	16	13·6																			—	—	—	—	0	0	0
Lorne Park	43	32	79	37						30·7	—	3	57·0	27	6·0	5	18·9																		1·64	—	0·67	6	25	0	0	0
Lindsay	44	20	78	45	872					21·4	— 0·4	32	52·7	26	— 5·0	16	17·7					7	0	0	12	9	21	2	41	1	93	2·1	3·7	—	2·45	+0·08	0·57	13	18	1	2	1
Lakefield	44	25	78	15	850					29·2	+ 3·0	26	54·0	22-27	— 5·0	16	23·5																		2·93	—0·24	0·80	9	22	0	1	0
Meaford	44	37	80	37	600																																					
*Midland	44	44	79	53	750					27·2	—	4	45·0	10-21	— 5·0	7-16	—																		0·70	—	0·50	3	28	0	0	0
Madoc	44	30	77	29	575					23·6	—	7	49·0	27	— 5·0	7	18·6																		3·35	—	0·60	15	16	1	1	0
Montague	44	56	75	57						21·4	—	1	49·0	26	—14·0	4	22·5																		2·50	+0·65	0·70	6	25	4	0	0
Montreal River										15·7	—	1	57·0	26	—22·0	3	30·0																		2·70	—	0·8[illegible]	9	22	0	0	0
*North Bruce	44	23	81	25						28·1	+ 0·7	23	55·0	26	3·0	7	—					5	5	1	13	18	4	13	31	0	93				2·15	—0·43	0·43	13	18	0	0	1
North Gower	45	8	75	13						—	—	9	—	—	—	—	—																		—	—	—	—	—	—	—	—
Owen Sound	44	34	80	55	597					28·6	+ 2·4	33	55·0	26	0·0	5	16·6					11	4	0	0	28	5	0	11	0	62				0·80	—1·61	0·40	2	29	0	0	0
Orillia	44	34	79	24	775					24·1	+ 1·0	19	53·0	26	— 5·0	16	19·6					4	0	0	4	7	4	6	6	0	31				0.47	—	0·40	—	—	0	0	1
Ottawa	45	26	75	12	291	29·97	30·68	29·14	1·54	21·1	— 4·6	28	45·0	26	— 7·0	4	18·9					7	8	8	4	1	12	8	14	0	62				2·47	—0·06	1·05	14	17	0	0	0
*Ottonabee	44	20	78	18	674					25·8	— 0·2	15	50·0	26-27	— 2·0	16	—					7	4	8	8	13	13	36	4	0	93				1·90	—0·21	0·50	8	23	0	0	1
Port Arthur	48	27	89	12	644	29·91	30·55	29·46	1·09	26·0	+ 6·9	31	57·0	25	—12·0	15	22·8			5	3	7	4	5	4	5	4	10	21	2	62				0·73	—0·22	0·30	5	26	2	0	1
Port Stanley	42	40	81	13	592	30·01	30·63	29·29	1·34	29·1	+ 0·9	37	50·2	20	5·0	16	11·3			6	11	7	5	16	3	0	2	16	12	1	62				2·72	—0·14	0·50	19	12	0	1	3
Port Dover	42	17	80	13	635					27·6	— 1·9	36	47·5	20-26	1·5	16	13·8					5	4	5	4	2	1	7	3	0	31				2·51	—0·31	0·74	16	15	1	2	0
Port Burwell	42	39	80	55	592					30·7	—	8	51·5	20	6·0	16	12·5																		2·67	—	0·60	14	17	0	0	0
Parry Sound	45	19	80	0	635	29·97	30·66	29·30	1·36	23·7	+ 0·3	31	55·5	26	—10·0	5	19·3			5	6	1	4	1	18	6	7	8	15	2	62				3·43	+0·42	0·45	18	13	0	0	1
Point Clark	44	5	81	41	595					20·8	—	39	40·0	26	3·0	6 15	16·3					11	[illegible]	1	3	25	6	8	5	0	62				1·90	—0·13	0·60	5	26	0	0	0
Pelee Island	41	50	82	35	585					32·2	+ 1·2	32	49·5	19	17·5	3	8·8																		1·08	—1·33	0·35	5	26	0	0	0
Paris	43	12	80	25	840					29·1	— 0·7	22	51·0	14	1·0	16	18·3																		2·40	—0·12	0·81	8	23	0	1	0
Peterboro	44	17	78	19	722					24·1	— 2·1	41	51·0	27	— 9·0	7	18·7																		1·59	—0·99	1·10	7	24	0	1	0
Porcupine										15·1	—	1	58·5	26	—31·2	3	27·3																		—	—	—	—	—	0	0	0
Ronville	45	15	78	57	1038					17·9	—	4	16·0	26	—21·0	4	24·2																		—	—	—	—	—	0	0	0
Renfrew	45	26	76	39	416					21·1	— 1·5	22	53·0	26	—15·0	5	22·8																		2·29	+0·25	0·40	12	19	0	0	6
Stonecliffe (Rockliffe)	46	9	78	6	557	29·95	30·61	29·27	1·37	19·1	— 2·0	34	47·0	10-28	—22·0	5	28·1					0	1	6	0	0	0	19	2	31	62				1·20	—0·75	0·46	10	21	1	0	1
Southampton	44	30	81	21	656	30·00	30·65	29·30	1·35	28·1	+ 0·6	35	56·1	26	— 4·5	7	16·6			7	9	11	3	3	7	15	6	6	10	1	62				3·67	+0·85	0·70	19	12	0	1	0
*Sarnia	42	59	82	24	586					31·6	+ 1·2	16	53·0	20-26	8·0	5-16	—																		0·90	—0·87	0·40	4	27	0	0	0
Stratford	43	23	81	0	1191					26·1	+ 1·2	45	51·0	28	4·0	16	16·3																		3·29	+0·15	1·00	6	25	0	0	0
Stony Creek	43	13	79	45	292					34·0	+ 0·5	27	58·0	26	4·0	7	15·9			5	6	10	11	6	8	1	23	18	16	0	93	III	VII		1·81	—1·20	0·66	6	25	1	0	0
Schreiber	48	50	87	15						19·0	+ 1·6	11	50·1	20	—18·8	3	24·4																	—	3·29	—	0·69	8	23	4	0	1
Shelburne	44	5	80	47						22·8	—	2	47·0	28	— 4·5	16	15·6																		2·75	—	0·61	10	21	0	0	0
Toronto	43	40	79	24	350	30·01	30·63	29·26	1·37	30·1	+ 0·1	70	55·2	27	1·3	16	14·3					5	7	10	6	3	7	10	14	0	62				2·05	—0·15	0·69	15	16	0	1	1
Uxbridge	44	5	79	8	886					24·3	—	7	51·0	26	— 4·0	16	14·9																		2·39	—	0·73	12	19	0	1	0
Uplands	45	48	79	25						20·2	— 2·5	24	52·0	26	—19·5	5	26·8					12	0	4	1	9	0	25	3	8	62				2·65	+1·37	0·35	11	20	0	0	0
Ursa	44	54	78	18						19·1	—	4	42·0	27	—18·0	5	15·6																		3·25	—	0·54	14	17	0	0	0
White River	48	35	85	16	1252	29·93	30·52	29·43	1·09	16·6	+ 3·7	21	18·0	26	—38·0	3	27·3					16	1	1	0	10	6	9	1	18	62				0·14	—1·56	0·04	5	26	0	0	0
Woodstock	43	8	80	47	980	30·01	30·63	29·27	1·36	28·0	+ 3·6	36	54·0	27	— 1·0	16	16·7		79	7	14	5	5	6	16	6	18	8	29	0	93	12·0	23·0	1 W	2·40	+0·47	0·73	13	18	0	0	0
Welland	42	59	79	17	577					29·8	— 0·2	25	57·0	26	— 1·0	7	16·9																		1·84	—1·13	0·45	10	21	0	0	0
Windsor	42	20	83	4	625					34·1	+ 1·6	36	58·0	22	8·0	16	15·9																		1·52	—0·96	0·62	6	25	0	0	0
Wallaceburg	42	35	82	24						31·8	—	6	61·0	26	6.0	15	17·1																		1·56	—	0·40	12	19	0	0	0
QUEBEC—																																										
Abitibi	48	43	79	22						15·1	— 3·1	32	52·0	26	—35·0	3	25.7			5	6	16	5	7	1	27	5	22	10	0	93	III	VI	15 N	1·00	—2·18	0·30	6	25	0	0	0
*Anticosti, E. Point	49	6	61	42	30					19·5	— 0·5	28	36·0	28	—15·0	1	—					19	2	2	5	8	23	8	19	7	93				1·51	—	0·60	4	27	0	0	1
*Anticosti, W. Point	49	52	61	32	30					20·9	0·0	31	38·0	27	— 6·0	1- 5	—					21	1	7	5	28	2	7	22	0	93				1·72	—1·10	0·60	7	24	0	0	2
Brome	45	10	72	36	678					19·6	— 4·1	30	49·0	27	—19·0	1	20·3					9	1	8	1	11	6	50	3	4	93				3·00	+1·18	1·20	7	24	0	0	0
*Bicquet	48	25	68	53																																						
Clarke City	50	10	66	25						19·8	—	5	46·0	15	—35·0	1	26·8					1	4	10	1	0	4	4	7	0	31				3·36	—	0·70	10	21	0	0	0
*Cape Chatte	49	6	66	45																				3																		
*Cape Magdalen	49	16	65	20	93					22·0	0·0	29	50·0	28	0.0	7	—					1	1	0	9	9	6	1	45	18	93				0·52	—2·66	0·15	10	21	0	0	0
Chicoutimi	48	25	71	5	150					—	—	32	—	—	—	—	—			6	5	0	0		42	0	51	0	0	0	93	IV	VIII	15 SE	0·54	—0·74	0·40	4	27	2	0	2
Chicoutimi (2)										15·4	—	1	16.0	28	—26·0	4	25·1																		—		—	—		0	0	0
Disraeli										15·3	—	1	50·5	27	—26·0	3	31·5							4											2·76	—	0·70	11	20	0	0	0
Father Point	48	31	68	19	20	29·83	30·63	28·90	1·73	21·7	— 0·4	34	48·0	27	—12·0	1	18·3			6	5	6	2		1	11	12	9	14	3	62				1·58	—1·31	0·40	14	17	2	0	0
Lake Edward	47	39	72	15	1333					9·9	—	1	46·8	27	—37·5	4	29·5							4											0·95		0·35	5	26	0	0	0
Montreal	45	30	73	35	187	29·95	30·71	28·96	1·75	23·2	— 2·7	33	45·3	27	— 3·7	16	14·8			5	8	2	2	1	5	9	25	9	6	0	62				3·61	—0·29	1·09	16	15	0	0	5
Quebec	46	48	71	13	296	29·90	30·71	28·99	1·72	20·0	— 3·0	36	43·4	26	— 9·0	4	18·7			6	12	0	11	0	0	1	21	21	6	1	62				2·97	—0·29	0·51	16	15	5	0	0
*Roberval	48	31	72	13	352					3·6	—	8	23·0	20	—22·0	1	—					9	26		6	0	16	6	18	0	81				—	—	—	—	—	0	0	0
St. Anne de Bellevue	45	27	73	59						20·7	—	4	48·0	27	—10·0	5	18·1																		2·86	—	1·15	4	27	0	0	0
Shawinigan Falls	46	34	72	43						14·7	—	8	17·0	26	—22·0	5	21·2																		—	—				0	0	0

PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA. MARCH, 1911.

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

STATION.	Latitude N.	Longitude W.	Elevation above sea level, in feet.	PRESSURE. Mean reduced.	Highest.	Lowest.	Range.	TEMPERATURE. Mean.	Difference from average.	Years observed.	Highest.	Date.	Lowest.	Date.	Mean daily range.	Mean temperature of dewpoint.	Mean relative humidity.	Mean amount of cloud.	No. of days completely clouded.	DIRECTION OF WIND FROM N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.	Total number of observations.	VELOCITY OF WIND. Mean miles per hour	Highest day's velocity.	Date and direction from.	PRECIPITATION. Amount.	Difference from average.	Heaviest fall in month.	Days with .01 or more.	No. of fair days.	No. of auroras.	No. of thunder-storms.	No. of fogs.
QUEBEC.—*Concluded.*																																									
Sherbrooke	45 32	72 5	620					19 5	—	9	48 7	27	—12 3	7-25	21 6																	3 78		0 85	23	8	0	0	0
Shawbridge	45 51	74 3																																							
NEW BRUNSWICK—																																									
Chatham	47 3	65 29	21	29 90	30 71	29 16	1 55	22 3	3 1	37	51 5	28	11 0	1	21 7			4	3	0	3	8	0	0	20	16	12	3	62				2 58	—0 55	0 67	13	18	0	0	0
Dalhousie	48 4	66 22	389					20 6	1 1	30	49 0	26	—16 0		21 3					0	0	10	2	0	0	19	0	0	31				1 61	1 28	0 89	4	27	0	0	0
Fredericton	45 57	66 39	164	29 92	30 73	29 15	1 58	22 8	1 1	39	49 5	26	—10 0	7	32 7		80	5	6	1	3	1	6	8	20	19	30	5	93	10 0	23 3	16 SW	3 48	—0 58	0 71	8	23	0	0	0
Grand Manan	44 47	66 46	49	29 90	30 63	29 08	1 55	28 8	1 1	27	46 7	26	4 0	1	24 3			5	5	5	4	2	4	3	13	10	29	1	82				1 81	3 12	0 55	11	20	4	0	1
Moncton	46 9	64 45	50					24 9	1 2	14	52 0	27	3 0	7	21 9					2	3	6	6	1	0	17	0	31				1 95	—0 26	0 45	6	25	0	0	0
*Point Lepreaux	45 1	66 28	30					25 8	0 7	33	40 0	8 27	7 0	1-16				5	7	11	8	2	4	0	15	14	26	0	81	11	VI	15 SE	4 17	+0 48	1 10	7	24	0	0	3
St. John	45 17	66 4	70	29 91	30 70	29 20	1 50	25 1	3 1	38	46 1	28	2 3	1	15 0			5	8	3	5	1	7	8	13	4	21	0	62				4 71	+0 66	1 39	12	19	0	0	1
St. Stephen	45 11	67 16	35					24 9	3 0	11	52 0	26	11 5	1	32 1																		3 49	0 71	0 91	8	23	0	0	0
Sussex	45 38	65 38	69					25 2	— 1 3	11	49 0	28	— 7 0	7	24 1					2	2	0	2	3	0	1	3	15	31				1 78	+0 50	1 92	6	25	0	0	0
NOVA SCOTIA—																																									
Antigonish	45 38	61 59	50					23 5	— 1 1	19	0 16	28	—12 0	7	18 9																											
Halifax	44 39	63 36	88	29 92	30 59	29 16	1 43	27 9	— 3 6	37	47 2	30	1 2	1	17 0					3	11	0	3	5	9	12	10	6	62				1 49	1 25	0 85	14	17	0	0	0
Port Hastings	45 39	61 32	45					28 9	—	20	58 0	30	1 0	1	11 3					0	0	0	5	9	9	0	17	0	31				1 63	—	0 58	7	27	0	0	0
Parrsboro'	45 23	64 19	40																																						
Sydney	46 10	60 10	35	29 92	30 59	29 02	1 57	24 7	3 8	37	49 0	28	2 0	1	17 7			6	6	7	2	0	1	4	22	7	16	3	62				3 12	1 64	0 48	11	20	0	0	0
*Sable Island, E. Point	43 58	59 46	25					31 2	1 5	28	42 0	15	16 0	6						1	15	0	6	4	29	0	38	0	93				3 37	+0 22	1 09	6	25	0	0	2
Truro	45 22	63 18	77					24 9	3 1	37	53 2	27	11 1	5	22 3			6	0	10	12	3	10	6	15	18	13	6	93				3 21	—0 57	0 62	15	16	0	0	1
Windsor	44 59	64 6	200					26 1	9	51	0	30	— 7 5	7	17 5																		3 61		0 62	10	21	0	1	0
*Whitehead	45 15	61 8	50					27 2	1 3	27	39 0	28-30	5 0	6						4	5	0	6	12	12	16	28	0	93				2 27	—1 21	1 23	6	25	0	2	8
*a*Wolfville	45 7	64 20		29 88	30 58	29 26	1 32	26 7	3 1	12	51 7	28	1 6	5	18 2					3	4	3	5	6	8	14	15	1	62				3 20	+0 87	1 09	8	23	0	0	1
Yarmouth	43 50	66 2	65	29 91	30 63	29 23	1 10	29 6	2 7	31	47 0	30	0 8	7	13 1					18	1	2	3	9	7	9	8	2	62				2 57	—2 13	0 70	11	17	0	0	0
P. E. ISLAND—																																									
Charlottetown	46 14	63 10	38	29 90	30 61	29 21	1 43	25 0	1 1	36	47 5	28	— 8 0	5	16 9					1	5	2	5	11	12	15	4	7	62				2 59	—0 51	0 51	11	20	0	0	0
Charlottetown (2)	46 14	63 7	75					25 2	—	1	48 0	28-30	7 0	5	18 7																		2 67		0 49	13	18	0	0	0
Hamilton	46 25	63 48						23 1	2 7	12	49 0	31	0 0	0	11 6					1	0	1	1	8	1	17	2	0	31				1 38		0 90	5	26	0	0	0
NEWFOUNDLAND—																																									
*Amour Point	51 28	56 51						13 6			18 38 0	29	8 0	1	5					1	2	21	1	0	0	39	29	0	93				—	—		0	0	1		
Burin	47 0	55 10	27																																						
*Cape Norman	51 38	55 52						11 8	3 0	26	40 0	28 31	— 6 0	1						0	0	0	0	5	19	29	35	0	93				1 51	—	0 70	8	23	0	0	0
Fogo	49 43	54 17	30	30 17	30 18	29 05	1 43	22 7	—		2 50 0	28	12 0							8	3	0	1	10	9	20	6	5	62				7 25	—	1 20	17	11	0	0	1
*Point Rich.	50 42	57 25	35					18 0	— 2 0	27	41 0	31	9 0	26	—					8	9	2	1	17	13	26	7	0	93				1 30		0 50	7	24	0	0	1
Port aux Basque	47 35	59 10	125	29 88	30 57	29 08	1 19	21 1			3 39 5	9	2 0	1	12 6					3	1	12	3	3	5	15	16	1	62				4 19		0 92	16	15	0	2	2
St. John's	47 31	52 42	125	29 81	30 45	28 91	1 51	26 1	2 1	38	50 0	28	2 0	6	11 5			6	8	5	4	3	3	16	12	8	9	2	62				3 83	—0 87	1 20	16	15	0	0	5
BERMUDA—																																									
Prospect	32 17	64 30	151	30 11	30 52	29 78	0 71	66 2	2 7	20	71 2	16	41 2	25	11 2					11	3	4	2	11	7	3	17	1	62				2 40	—2 65	0 50	13	18	0	0	0

PRECIPITATION AT STATIONS REPORTING RAIN, SNOW, WEATHER, &c., DURING MARCH, 1911.

STATIONS.	RAINFALL.					SNOWFALL.				REMARKS.
	Amount in inches	No. of Days '01 or over	No. of Fair Days	Heaviest Fall in Month	Date	Amount in inches	No. of Days.	Heaviest Fall in Month	Date.	
BRITISH COLUMBIA—										
Alkali Lake										
Annis	1·27	9	22	0·42	23					
Beaver Lake	1·62	6	25	0·75	23					
Coquitlam	5·14	7	24	2·21	23					
Denman's Island	0·69	4	27	0·29	23					
Ferguson	0·45	2	22	0·41	23	30·5	7	7·5	24	
Goldstream Lake	3·81	9	22	1·62	24					
Grand Forks	0·14	2	28	0·06	7	1·0	1	1·0	1	
Hydraulic										
Hornby Island	0·36	3	28	0·30	7					
Jordan River	3·90	14	20	1·10	24					
Jordan River (Bear Creek)	1·80	10	18	1·44	9	7·9	3	5·4	25	
Little Qualicum (French Creek, V.I.)	0·15	4	27	0·18	23					
Monte Creek	0·28	1	30	0·28	25					
Naas Harbour										
Skidegate	4·60	16	15	0·89	12					
ALBERTA—										
Bardo						1·0	1	1·0	7	
Bismark	0·16	1	27	0·16	28	3·3	3	1·2	11	
Bruederheim	0·10	3	24	0·04	24-28	3·0	1	1·0	2-13	
Bittern Lake	0·21	3	26			1·0	2	0·5	2-11	
Bantry										
Brooks	0·13	2	28	0·08	29	1·5	1	1·5	3	
Conjuring Creek										
Coutts										
Campsie	0·13	2	24	0·12	28	3·0	5	1·0	3	Aurora on 1, 2.
Caldwell						6·5	6	6·0	25	Fog on 14, 21
Dorenlee	0·35	1	29	0·35	30	1·0	1	1·0	2	
Elkwater										
Grassy Lake						2·0	2	1·0	3-31	
Jumping Pound						6·5	5	2·5	31	
Lacombe	0·31	1	27	0·31	28	9·5	3	1·5	31	
Langdon										
Loch Sloy						8·0	10	2·0	31	Aurora on 20.
Lyndon						5·5	3	4·4	31	
Lineham						1·8	2	1·3	31	
Macleod						1·0	1	1·0	31	
Minda (Many Berries Ranch)						1·5	2	1·3	30	
Maycroft	0·25	5	23	0·09	10	2·0	3	1·0	11	Fog on 14, 21.
Mayton										
Okotoks						3·2	4	2·0	30	
Ponoka	0·30	1	28	0·30	27	1·4	2	1·0	29	
Sion	0·10	2	19	0·08	23	13·0	10	3·0	30	Aurora on 1, 16, 17, 18, 19, 20, 21, 24, 28.
Seven Persons										
Tilley										
Wabamum										
SASKATCHEWAN—										
Carmichael						5·5	2	3·5	1	
Coulee										
Elm How						1·0	2	0·5	29-30	
Forks Swift Current (Gull Lake)	0·02	1	30	0·02	30					
Gull Lake						3·3	3	1·5	2	
Hanley										
Kinderseley										
Kelvinhurst	0·00					0·0				
Last Mountain										
Maple Creek	0·02	1	24	0·02	31	2·8	6	1·5	3	
Willow Creek	0·00					0·0				
MANITOBA—										
Cartwright	0·60	2	26	0·50	29	2·5	3	2·0	16	Aurora on 19, 20, 21, 24, 26.
Deloraine										
Gretna						0·5	1	0·5	18	
Norquay						2·8	4	1·0	1	
Rapid City						2·4	6	0·6	16	Aurora on 19, 20, 28.
ONTARIO—										
Arden										
Deer Park	1·20	3	23	0·61	27	1·3	5	1·3	17-29	
Dutton	0·80	3	24	0·50	26	8·0	4	4·0	29	
Emsdale	0·52	3	17	0·29	28	20·3	11	4·5	22	Aurora on 23, 24, 25, 28.
Goderich	0·90	3	18	0·30	9-27	33·0	10	9·0	15	
Georgetown	1·67	5	15	0·79	27	9·2	11	2·2	6	Aurora on 20, Thunder on 11
Grantham	1·05	5	18	0·52	10	13·3	8	5·0	3	
Grand Valley	1·25	5	15	0·10	28	13·5	11	2·5	6-31	
MacCue	0·63	3	22	0·33	27	11·0	6	5·0	22	
Orangeville	0·76	2	21	0·54	27	14·9	8	5·1	6	
Princeton	1·22	3	23	0·65	27	14·5	5	4·0	18-30	
Sydenham	0·35	1	26	0·35	11	9·5	4	3·0	31	
Strathroy	1·20	3	22	0·63	27	12·5	6	1·0	15-30	
Watford	2·25	7	24	0·75	27					
Westport	0·50	2	22	0·25	20-27	15·3	7	3·0	22	Thunder on 20, 27.
Wooler	1·60	3	24	0·73	27	9·0	4	3·0	17-30	
Westminster	0·77	3	24	0·45	27	10·0	4	3·0	5-31	
Wiarton	1·66	5	22	0·50	27	11·5	4	5·0	5	Thunder on 11.
Wesley	1·62	6	14	0·62	10	16·5	11	1·0	6	
QUEBEC—										
Timiskaming	1·53	6	25	0·60	27					
Kipawa										
Quinze Dam	0·90	1	22	0·90	27	16·5	8	3·3	22	
NEW BRUNSWICK—										
Point Escuminac	0·34	3	23	0·17	28	19·2	5	9·7	23	

MEAN PROPORTION OF BRIGHT SUNSHINE REGISTERED IN EACH HOUR OF THE DAY IN THE MONTH OF MARCH, 1901

STATIONS.	Hours Ending																							
	6 a.m.	7 a.m.	8 a.m.	9 a.m.	10 a.m.	11 a.m.	Noon	1 p.m.	2 p.m.	3 p.m.	4 p.m.	5 p.m.	6 p.m.	7 p.m.										
Victoria		03	27	40	47	51	61	61	71	74	68	60	11											
Nanaimo		15	32	50	58	61	61	66	67	69	55	41	07											
Vancouver			11	41	50	48	54	62	65	58	51	41	18											
Agassiz			15	48	50	52	50	61	65	52	40	21	06											
Tranquille		02	26	53	66	64	66	66	68	68	62	53	08											
Summerland		15	46	67	67	70	69	66	71	69	64	48	02											
Kamloops			30	63	70	66	71	67	68	71	65	36	01											
Edmonton		08	38	58	61	65	69	74	73	66	61	4[illegible]	02											
Lethbridge		04	41	60	63	62	68	66	61	60	59	04												
Lacombe		02	21	4[illegible]	65	63	65	65	63	65	52	31	02											
Medicine Hat			27	50	57	63	69	68	61	57	44	22												
Fort Vermilion			16	56	61	62	69	61	58	56	42	22												
Battleford			11	39	57	63	66	69	71	69	59	57	16											
Indian Head			24	47	61	70	71	71	67	68	63	32												
Moosejaw		10	43	64	70	63	69	69	67	70	54	48	05											
Rosthern		03	33	47	54	69	67	72	69	65	63	57	04											
Brandon		05	31	56	66	71	67	65	67	65	54	39	15	02										
Winnipeg		02	22	32	52	54	61	63	72	73	60	50	05											
Haileybury		19	45	56	59	61	59	61	63	64	56	51	22											
Woodstock			30	43	42	45	51	52	51	48	45	27	07											
Lindsay		01	09	37	51	56	54	57	59	56	46	37	24											
Barrie		13	36	46	54	55	58	54	57	58	54	35	05											
Toronto			18	48	56	59	58	61	65	57	48	40	07											
Kingston		13	36	51	56	57	57	56	54	56	46	32	04											
Ottawa		19	44	53	57	63	70	58	59	57	47	20												
Montreal		03	26	46	50	49	48	48	47	39	25	04	01											
Quebec		05	31	43	53	58	58	55	58	54	51	43	04											
Sherbrooke		10	39	56	58	61	65	55	60	45	42	38	09											
Fredericton		08	46	55	57	58	61	65	60	65	58	46	17											
Charlottetown		03	29	39	53	55	58	59	61	61	56	40	03											
Dunvegan, Alta		03	17	52	43	56	51	47	42	40	36	20												

	Victoria.	Nanaimo.	Vancouver.	Agassiz.	Tranquille.	Summerland.	Kamloops.	Edmonton.	Lethbridge.	Lacombe.	Medicine Hat.	Ft. Vermilion.	Battleford.	Indian Head.	Moosejaw.	Rosthern.	Brandon.	Winnipeg.	Haileybury.	Woodstock.	Lindsay.	Barrie.	Toronto.	Kingston.	Ottawa.	Montreal.	Quebec.	Sherbrooke.	Fredericton.	Charlottetown.	Dunvegan.
Registered duration in hours	182	172	154	113	185	207	191	191	160	168	160	151	155	179	198	18[illegible]	187	173	187	137	119	158	161	161	189	321	150	163	186	157	120
Percentage of possible duration	49	47	42	39	50	56	52	52	44	46	45	41	42	49	54	50	51	47	51	37	33	43	43	43	51	87	43	44	50	43	33
Difference from average	+11			+11										15			8	2		3	2	5	9	16	-25	8	-2		+3		
Maximum percentage in one day	58	89	84	81	84	88	85	87	79	87	83	71	77	82	86	86	91	87	96	92	89	89	86	93	90	100	91	93	96	91	76
Date of maximum	16	1	1	1	3	20	3	1	1	19	1	1	12	13	18	11	26	31	13	13	21	21	13	6	21	21	11	13	5	1	16
No. of days completely clouded	4	1	3	5	1	3	5	9	3	1	1	1	1	2	1	2	2	8	6	9	6	7	1	3	8	6	9	6	6	3	8

Aurora recorded :—

Where the class of aurora is noted by the observer, it is given, (I), being the brightest, (IV) the feeblest in brilliancy.

1. Sion, III ; Campsie, I; Pembina; Fort St. James.
2. Campsie, III ; Montague; Fort Vermilion.
3. Waitefield, II; Aitkensville, IV; Schreiber, IV; Quebec, IV; Haileybury, IV.
4. Melfort, IV; Prince, IV; Montague, Quebec, IV; Dawson, IV ; Lake Talon.
5. Pembina, Oliver, Aitkensville, IV; Fort Vermilion.
6. Alix.
12. Prince, IV.
14. Sion.
15. Pembina, Prince, II ; Spirit River.
16. Sion; Fort Vermilion ; Spirit River.
17. Sion, Oliver, Prince, IV; Waitefield, IV; Fort Vermilion : Spirit River.
18. Sion, Prince, II : Spirit River.
19. Sion, Cartwright, II ; Rapid City, I ; Chilcoten, I : Chilliwack, III; Okanagan Mission, Princeton, III ; Salmon Arm, Foxleigh, Summerland, Hillsdown, IV; Halkirk, Threehills Creek, II; Waitefield, III; Esterhazy, III : Chaplin, IV; Esteven, II ; Oliver, Glenbryan, I : Melfort, IV; Muenster, IV; Pense, III; Brandon, Treherne, IV; Aweme, III; Lucknow, IV; Kakabeka Falls, II; Clinton, III; Winnipeg, I ; Crescent Lake II ; Boutin III ; Spirit River ; Barrie, IV.
20. Loch Sloy, Sion, III; Cartwright, III; Rapid City, I; Georgetown, III; Esterhazy, III ; Chaplin, IV; Glenbryan, I; Muenster, IV; Oliver, Treherne, IV; Aweme, IV; Schreiber, IV; Lucknow, IV; Kakabeka Falls, III; Haliburton, Clinton, III ; Minnedosa, I ; Grand Manan, IV; Fort Vermilion, Gravenhurst, III; Haileybury, III : Crescent Lake IV.
21. Sion, III; Cartwright, IV; Summerland, Hillsdown, IV : Halkirk, Pembina, Pakan, IV; Threehills Creek, IV; Waitefield, II; Foxleigh, Brownlee, Chaplin, IV; Grenfell, II; Glenbryan, I; Melfort, IV; Muenster, II; Oliver, Prince, I; Aweme, II; Birnam, III; Port Arthur, II; Minnedosa, IV; Quebec, III; Father Point, II; Grand Manan, IV; Fort Vermilion ; Crescent Lake IV; Boutin II.
22. Hillsdown, IV; Halkirk, Pembina, Threehills Creek, IV; Chaplin, IV; Oliver, Aweme, IV.
23. Emsdale, III; Melfort, IV; Oliver, Prince, IV; Pense, III; Aitkensville, IV; Aweme, III; Montague, Quebec, IV; Father Point, III; Dawson, IV; Fort Vermilion, Gravenhurst, IV; Haileybury, III ; Crescent Lake IV ; Lake Talon.
24. Sion, III : Cartwright, IV ; Emsdale, IV : Waitefield, II; Esterhazy, III; Melfort, IV : Muenster, II; Oliver, Quebec, IV; Aitkensville, II; Aweme, III; Stony Creek, II; Port Dover, IV; Montague, Madoc, III; Lucknow, IV; Haliburton, Minnedosa, II; Bruce Mines, IV ; Chicoutimi, Grand Manan, IV; Dawson, IV; Fort Vermilion, Gravenhurst, II ; Crescent Lake III ; Deloraine ; Lake Talon IV.
25. Emsdale, III; Glenbryan, II; Melfort, IV; Muenster, IV; Oliver, Schreiber, IV; Minnedosa, I; Fairview (brilliant), Fort Vermilion ; Crescent Lake III : Boutin III.
26. Cartwright, IV; Chilliwack, II; Threehills Creek, III; Esterhazy, II; Esteven, IV; Muenster, III; Aitkensville, IV; Chicoutimi, Winnipeg, II; Minnedosa, IV; Grand Manan, IV; Dawson, IV; Fort St. James ; Boutin II.
27. Chilcoten, II; Summerland, Threehills Creek, IV; Glenbryan, I; Prince, IV; Aitkensville, III; Schreiber, IV; Minnedosa, I; Dawson, IV ; Crescent Lake III.
28. Sion, II; Rapid City, II; Emsdale, IV; Esterhazy, III; Muenster, IV; Aweme, II; Port Arthur, I; Stonecliffe, II; Fort Vermilion, Gravenhurst, IV; Haileybury, II.
29. Muenster, IV; Haileybury, IV ; Ninga ; Boutin IV.
30. Dawson, IV.
31. Dawson, IV.

Thunder recorded :

10. Port Stanley.
11. Wiarton, Georgetown, Agincourt, Point Clark, Peterboro', Paris, Midland, Lakefield, Lucknow, Kinmount, Haliburton, Elora, East Toronto, Toronto, Southampton ; Barrie.
20. Westport.
21. Georgetown.
27. Wooler, Westport, Madoc, Clinton, Bloomfield, Birnam.
30. Windsor, N.S.
31. Wolfville, N.S.

FORECASTS FOR MARCH, 1911.

The forecasts issued by this office at 11 p.m. each night are posted up at every telegraph station in Canada, and are for the 24 hours beginning at 8 a.m. the following day.

The number of these predictions issued during the month was 1222. These were divided as follows :—

District.	No. Issued.	Verified.			
		No. Fully	No. Partly	No. Not	Per-centage.
Alberta	81	61	15	2	88·3
Saskatchewan	82	68	12	2	90·2
Manitoba	82	69	10	3	90·2
Lake Superior	91	77	11	3	89·1
Lower Lake Region	110	89	17	4	88·6
Georgian Bay	108	79	21	8	82·9
Ottawa Valley	104	78	16	10	82·7
Upper St. Lawrence	114	82	14	8	85·6
Lower St. Lawrence	107	83	16	8	85·0
Gulf	108	86	16	6	87·0
Maritime Provinces West	121	95	20	6	86·8
Maritime Provinces East	121	92	21	8	84·7
Total	1222	962	192	68	86·6

In order to obtain the percentage of verification of the predictions, the number partly verified is divided by two and added to the number fully verified, and the result divided by the total number issued.

In ascertaining to what extent the predictions have been verified, the reports from the agents at all observing stations, as well as the telegraphic reports, are used.

R. F. STUPART, Director.

Meteorological Office, Toronto,
May, 1911.

DEPARTMENT OF MARINE AND FISHERIES, CANADA.

METEOROLOGICAL SERVICE.

Monthly Weather Review.

VOL. XXXV. APRIL, 1911. No. 4.

INTRODUCTION.

In compiling the present Review the principal data made use of are the telegraphic reports of observations received at this office for the purpose of weather forecasting, and reports by mail from voluntary observers and storm signal agents. For the data used in tracing the paths of areas of high and low pressure in the United States, we are indebted to the Chief of the Weather Bureau, Washington, D.C.

GENERAL SYNOPSIS.

The month began with very cool weather in British Columbia, especially in the Cariboo district, where temperatures below zero were registered on the 3rd. Snow fell during the first two weeks on one to three days in the more northerly latitudes and on the higher levels. The latter part of the month was much warmer, maximum temperatures ranging between 70° and 80° during the last week. The precipitation was very much less than normal on the coast and exceeded the average at very few points in the interior, except in the Cariboo district, where the excess was small.

In Alberta temperatures on the first day of the month were at the freezing point or nearly so, but decreased to zero on the third day, and to 10° to 20° below zero on subsequent days, until the 8th. A milder period intervened till the 13th and 14th, when temperatures were again zero or nearly so. From the 16th to the end of the month more seasonal weather obtained, the highest readings of the month, ranging from 75° to 80°, being registered between the 21st and 25th In the foot-hills of the Rockies, in the southwestern portion of the province, the precipitation was in excess of normal by about one-third, but elsewhere in Alberta there was a deficiency, rain or snow falling on but two days in many districts.

Temperature conditions in southwestern Saskatchewan were very similar to those which obtained in Alberta, but in the northern and eastern portions of the province the latter part of the month was much warmer while the first few days were not so severely cold, many places registering no temperatures below zero during the month. Precipitation was in excess of the normal amount in the central and southwestern districts but elsewhere was deficient.

Milder weather was experienced in Manitoba than in the other western provinces. The only cold period occurred during the first week, the lowest temperature, about 3°, being registered on the 3rd. After the 7th the temperature rose from the freezing point to 50° on the 9th and to 60° on the 11th. The remainder of the month was generally moderately warm, but on the 13th and 14th the temperature fell to zero, and a heavy fall of snow occurred in may districts, disappearing from the ground, however, in a few hours. On the 27th, 28th and 29th, maximum temperatures of 80° and higher, were registered.

The weather of the month was generally cool in Ontario, although no severe frosts occurred in southern Ontario after the first few days. In the Lake Superior districts and in the Porcupine country temperatures below zero were registered early in the first week, but the remainder of the month was free from cold periods. In the northern portions of the province snow fell towards the close of the first week, while showers occurred frequently in the southern counties. During the last week maxima temperatures exceeded 70° everywhere, and in northern and northeastern Ontario reached or exceeded 80°. In the counties of the extreme southwest, where showery weather was of very frequent occurrence during the month, the normal amount of precipitation was well exceeded, but elsewhere in the province there was a general deficiency.

Cool weather with little precipitation prevailed in Quebec province during the greater part of the month. Temperatures of 55° to 60° were recorded in some places about the 13th and 14th, but it

was generally much cooler until the last three days of the month, when 75° to 80° were registered. The deficiency of precipitation amounted to from one-third to one-half of the normal fall.

The weather was not seasonal in the Maritime Provinces, but was in fact almost wintry during the greater part of the month. As late as the third week temperatures did not exceed 35°, while snow fell to a considerable depth on the 5th, 9th, 21st and 22nd. On the last three days of the month, however, bright warm conditions were experienced, maximum temperatures exceeding 80° at many points.

ATMOSPHERIC PRESSURE.

The mean atmospheric pressure for April exceeded the normal throughout Canada, except from Eastern Alberta to the Rainy River District of Ontario, where the average was not reached.

From Lake Huron to the Maritime Provinces, positive differences were large, being generally more than 0·1 of an inch. The range of departure from average was 0·19 of an inch, the extremes being —0·05 of an inch at Minnedosa, Man., and 0·14 of an inch at Kingston, Ont. and St. John, N.B.

HIGH AREAS.

Six areas of high pressure were charted, one first appeared in the Yukon Territory, one in Northern Manitoba, three on the United States Pacific Coast and one in the Missouri Valley. The area from the Yukon was very important, assuming practically the winter type of system. It travelled over Canada far to the northward, ultimately drawing southward into the Lower St. Lawrence Valley and the Maritime Provinces, thence across Newfoundland. The remaining five systems were of the usual early spring type of areas, their paths being over the Great Lakes, thence southeastwards and off the Atlantic Coast.

LOW AREAS.

Thirteen areas of low pressure were charted. Two first appeared on the Alaskan coast; two in the interior of British Columbia; two in the West Pacific States; three in the South Pacific States; two in the far Southwest States and two off the Atlantic Coast. The Atlantic depressions each caused gales in Newfoundland, but the continental areas were for the most part feeble rather than energetic, being only occasionally accompanied by much unsettled weather.

WINDS, APRIL, 1911.

PROVINCE AND STATIONS.	Total Mileage.	Greatest Mileage in 24 hours.	Greatest Mileage in one hour.	Number of Gales.	Number of Strong Winds.	Number of Fresh Winds.	General Direction.
British Columbia.							
Victoria	6895	199	30	2	10	7	W.
Triangle Island	9233	823	75	5	6	8	N.W.
Alberta.							
Edmonton	5898	361	23	0	1	12	N.W.
*Sulphur Mt., Banff	11708	716	39	6	10	6	S.W.
Saskatchewan.							
Qu'Appelle	5561	330	22	0	2	9	S.W.
Manitoba.							
Winnipeg	9 60	820	19	1	7	10	N. & N.W.
Ontario.							
Parry Sound	5580	126	23	1	1	11	S.W.
Port Arthur	7272	525	37	2	3	12	E. & N.
Woodstock	7115	139	33	1	1	15	N.W.
Toronto	9112	616	36	3	1	11	N. & N.W.
Quebec.							
Montreal	9822	709	36	1	12	11	S. to W.
Quebec	9314	668	36	3	11	8	N.E.
Father Point	11392	851	46	10	9	3	W.
Maritime Provinces.							
Pt. Escuminac	11559	799	43	6	10	11	S.E.
Pt. Lepreaux	9942	693	15	3	15	7	N.W.
St. John	8418	505	29	0	15	7	N.W.
Halifax	9541	622	40	2	11	9	N.E.
Flat Pt	10467	727	35	5	14	5	N.

*For 23 days only.

TEMPERATURE.

On Vancouver Island, the coast and the lower mainland of British Columbia the mean temperature of the month was below normal by from 2° to 4°, while in the Cariboo district the deficiency amounted to 6°. In Alberta the mean temperature was also less than average by 2° in the northern portion and by 3° to 4° in the southern. In northern and eastern Saskatchewan the normal was exceeded by 1° in the north and by 2° in the eastern-central districts. In southwestern Saskatchewan, however, there was a deficiency of 2° to 3°. The weather of the month was warmer than usual in Manitoba by from 1° in the west to 3° in the most easterly districts.

Differences from normal varied greatly in Ontario. In the Lake Superior districts and generally in southwestern counties the mean was either normal or a little less. In those counties lying between the Georgian Bay and the Upper St. Lawrence there was a small excess over average temperature. In the Ottawa Valley, however, the month was very cool, with a mean 4° below normal.

In Upper Quebec there was a deficiency of about 1°, but in Lower Quebec normal conditions obtained.

In the Maritime Provinces the mean temperature was generally 2° below normal.

The highest and lowest temperatures recorded in each Province during the month of April, 1911, were:

	HIGHEST.	LOWEST.
British Columbia,	83° at Enderby on the 29th,	—21° at Fort St. James on the 4th.
Alberta,	80° at Medicine Hat on the 21st,	—25° at Eckville on the 4th.
Saskatchewan,	85° at Muenster on the 26th,	—12° at File Hills on the 6th.
Manitoba,	85° at Morden on the 28th,	—15° at Berens River on the 1st.
Ontario,	85° at Midland on the 28th,	—16° at White River on the 1st.
Quebec,	82° at Chicoutimi on the 27th, and at Shawinigan Falls on the 30th.	—26° at Lake Edward on the 2nd.
New Brunswick,	82° at St. Stephen on the 20th	7° at Chatham on the 3rd.
Nova Scotia,	79° at Halifax on the 29th,	7° at Truro on the 12th.
P. E. Island,	75° at Charlottetown on the 28th,	9° at Charlottetown on the 3rd.

PRECIPITATION.

More than normal precipitation occurred in the Cariboo district of British Columbia, southwestern and central Saskatchewan, eastern Manitoba, and southwestern Ontario. Elsewhere in the Dominion there was a deficiency.

BRIGHT SUNSHINE.

The amount of bright sunshine registered during the month of April was in excess of average in British Columbia, Alberta, eastern Saskatchewan, Manitoba, the Ottawa Valley, Quebec and the Maritime Provinces; but was deficient in northwestern Saskatchewan, and over the greater part of Ontario. In the western provinces the excess was very pronounced.

PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA, APRIL, 1911.

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

STATION.	Latitude N.	Longitude W.	Elevation above sea level, in feet.	Pressure. Mean reduced.	Pressure. Highest.	Pressure. Lowest.	Pressure. Range.	Temperature. Mean.	Temperature. Difference from average.	Temperature. Years observed.	Temperature. Highest.	Temperature. Date.	Temperature. Lowest.	Temperature. Date.	Temperature. Mean daily range.	Mean temperature of dewpoint.	Mean relative humidity.	Mean amount of cloud.	No. of days completely clouded.	Direction of wind from. N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.	Total number of observations.	Velocity of wind. Mean miles per hour.	Velocity of wind. Highest day's velocity.	Velocity of wind. Date and direction from.	Precipitation. Amount.	Precipitation. Difference from average.	Precipitation. Heaviest fall in month.	Days with .01 or more.	No. of fair days.	No. of aurorae.	No. of thunder-storms.	No. of fogs.
	° ′	° ′	ft.	in.	in.	in.	in.																																		
BRITISH COLUMBIA																																								
Alberni (Beaver Creek)	49 15	124 49	300					44·3	1·0	16	73·0	29-30	23·0	1	30·3																			2·22	2·51	0·73	8	22	0	0	0
Agassiz	49 14	121 31	52					47·1	−2·2	19	75·0	30	26·0	6	26·1																			2·48	1·67	0·81	9	21	0	0	0
Atlin	59 35	133 38	2240	29·08	30·73	29·39	1·34	26·1			65·0	30	12·0	3	17·6			7	4	3	1	1	6	22	1	3	7	13	60	5·0	11·0	13 S	0·10		0·03	4	26	0	0	0
Barkerville	53 2	121 35	4180	29·94	30·46	29·21	1·25	28·7	−6·7	21	56·0	30	8·0	4	18·2			5	5	0	0	0	0	5	6	5	1	43	60				2·07	+0·11	1·00	8	22	0	0	0
Bella Coola	52 40	126 51	150					40·1	−3·6	12	71·0	30	15·0	3	32·7																			1·03	−0·76	0·22	10	20	1	0	0
Babine Lake	55 38	126 26																																						
Boswell								43·2			65·5	24	27·0	13	20·0																									
Chilcotin (Big Creek)	51 40	123 0	3100					31·9			68·0	30	6·0	4	29·1																			0·43		0·28	3	27	4	0	0
Cranbrook	49 30	115 50						41·8			79·0	25	15·0	4	5·3	3·2																			0·35		0·30	3	25	0	0	0
Clayoquot	49 11	125 47	40					43·2	2·2	12	62·0	23	26·0	1	21·8																			2·05	−6·38	0·56	9	21	0	0	0
Cowichan (Tzouhalem)	48 25	123 42	170					45·0			68·8	30	26·5	5	23·2																			1·11		0·55	6	24	0	0	0
Chilliwack	49 10	121 57	21					46·6	3·5	12	75·0	30	27·0	8	22·1																			2·95	−1·30	0·91	11	19	0	0	0
Enderby	50 32	119 7	1180					43·7	2·7	10	83·0	29	16·0	4	31·3																			0·42	0·19	0·13	5	25	0	0	0
Fort St. James (Stuart's Lake)	54 28	124 12	2280					30·7	−1·1	18	59·0	30	21·0	1	23·6																			1·68	+0·83	0·46	7	23	2	0	0
Fairview	49 11	119 36						51·9			71·0	1-26	32·0	8	25·3																			0·18		0·10	2	28	0	0	0
Fruitvale	49 9	117 31						43·7			75·0	24	20·0	14	29·2																			0·81		0·31	5	25	0	0	0
Glacier	51 14	117 29	4072					31·5	−1·0	14	52·0	25	3·0	5	15·1																			1·15	+1·15	0·90	10	20	0	1	0
Golden	51 16	116 55	2550					35·7	−6·1	10	66·6	30	11·0	4	24·6																			0·40	−0·20	0·30	2	28	0	1	0
Grand Forks								45·2			78·0	24	20·0	1	29·5																			0·83		0·28	7	23	0	0	0
Holberg	50 39	128 18						39·5			55·5	29	27·0	1	12·1																			3·09		0·61	16	14	0	0	0
Hedley	49 35	120 10						44·7			75·0	23	20·0	3	26·7																			0·09		0·07	2	28	0	0	0
Hedley (Nickel Plate)								24·4			52·0	30	3·0	3	20·7																			1·10		0·40	7	23	0	0	0
Hope	49 23	121 25						47·7			81·0	30	27·0	26	29·8																			1·87		0·63	5	25	0	0	0
Ikeda Bay	52 17	131 7	5																																					
Kamloops	50 41	120 29	1245	29·04	30·55	29·32	1·23	45·7	−1·2	19	73·0	30	19·0	4	25·7		49	5	3	0	3	8	6	2	10	17	7	7	60	6·7	17·0		0·11	0·22	0·11	1	29	0	0	0
Ladner	49 5	123 4						45·1	1·3	11	65·0	15	28·0	5	13·21·6																			1·05	−0·77	0·40	4	26	0	0	0
Massett, Q.C.I.	53 58	132 9	30					36·8	6·0	11	54·0	26	29·0	3	12·4																			3·78	1·35	0·95	12	18	0	0	0
aNanaimo	49 10	123 37	125	29·96	30·45	29·35	1·10	44·0	−2·5	12	66·1	30	27·5	3	29·5		85	3	2	1	3	5	6	0	2	8	16	19	60	10·5	38·0		1·12		0·56	6	24	0	0	0
Nicola Lake	50 9	120 39	2120					40·7	3·0	16	71·0	25	14·0	4	25·6																			0·35	0·18	0·25	3	25	0	0	0
North Nicomen	49 12	122 2	59					45·7	3·0	19	74·0	30	27·0	5	22·1																			2·97	2·15	1·11	6	24	0	0	0
New Westminster	49 13	122 51	330					45·1	−3·3	23	72·9	30	27·8	13	20·6																			2·35	0·88	1·33	6	24	0	0	0
Nelson	49 29	117 21	1710					41·7			72·0	24	19·0	5	27·6																			0·76	0·33	0·20	4	26	0	0	0
Needles								45·9			70·0	22	25·0	7-13	23·7																			1·85		1·05	3	25	0	0	0
Okanagan Mission (Kelowna)	49 52	119 29	1200					41·8	1·7	12	76·0	30	19·0	1	26·1																			0·20	−0·22	0·20	1	29	0	0	0
Princeton	49 29	120 29	1650					41·4	−2·7	25	74·0	24	16·0	13	32·2																			0·10	0·10	0·05	4	26	0	0	0
*Penticton	49 29	119 35						44·9			77·5	24	24·0	13	25·2																			0·21	−0·36	0·11	4	26	0	0	0
Pemberton Hatchery	50 20	122 33						43·5			71·0	30	23·0	4	25·5																			0·73		0·78	5	25	0	0	0
Prince Rupert	54 18	130 18	170	30·06	30·10	29·35	1·05	38·1			61·0	30	19·5	3	11·9		82	7	16	6	9	8	9	8	11	1	2	6	60	5·1	16·0	1·98 E	8·64		1·44	16	14	0	0	0
Quesnelle	52 59	122 30	1700					37·0	5·8	16	72·0	21-22	1·0	4	28·8																			0·43	0·13	0·15	4	29	0	1	0
Revelstoke	51 0	118 6	1476					41·1	1·6	11	69·0	23	20·0	1	28·5																			0·83	1·18	0·58	5	25	0	0	0
Rossland	49 5	117 48	3100					42·1			70·0	24	20·5	5	20·2																			1·13		0·48	4	26	0	0	0
Ruskin (Stave Falls)	49 16	122 23	125					48·2			76·0	30	28·0	1	28·6																			2·59		1·10	5	25	0	0	0
Salmon Arm	50 42	119 35	1152					41·6	1·5	10	73·0	30	22·0	4	26·7																			0·80	0·19	0·30	4	26	0	1	0
Steveston (Garry Point)	49 21	123 17						43·1	3·2	16	58·0	29-30	27·0	13	17·1																			1·46	0·35	1·07	7	23	0	0	0
Swanson Bay	50 37	126 53						37·1			57·0	30	15·0	3	13·3																			8·01		1·96	16	11	0	0	0
Salt Spring Island	48 50	123 20																																						
Summerland	49 57	119 0	1190					44·9			74·0	24	20·0	1	23·4																			0·05		0·04	2	28	0	0	0
Sooke	48 11	123 44	25					44·6			68·0	24	28·0	7	12·21·5																			0·70		0·20	6	24	0	0	0
Stewart	56 1	130 1	215					31·4			58·0	29	11·0	3	12·1																			5·61		1·85	11	19	0	0	0
Tobacco Plains (Elko)	49 1	115 5	2684					45·1	0·1	16	71·4	22-25	21·0	4	22·4																			0·47	−0·46	0·27	2	28	0	0	0
Triangle Island	50 52	129 5	680																																					
aTranquille	50 41	120 29		28·82	29·26	28·18	1·08	45·3			76·0	30	17·0	1	26·7		63	3	0	6	10	12	4	1	9	3	1·5	0	60										
Vernon (Coldstream Ranch)	50 14	119 15	1575					44·5	1·0	17	73·0	24	19·0	5	25·5																			0·46	+0·02	0·26	3	27	0	0	0
Victoria	48 24	123 19	85	30·05	30·51	29·48	1·06	45·5	3·1	23	66·8	23	27·7	13	18·5		67	4	0	7	1	2	3	5	22	8	9	3	60	10·2	30·0	6 SW	0·59	1·21	0·51	4	26	0	0	0
Vancouver	49 17	123 5	136	30·06	30·57	29·51	1·06	44·9	1·4	11	66·7	15	28·9	5	17·9		71	4	1	2	1	5	6	3	9	8	9	17	60	11·1	31·0	11 SE	1·96	1·04	1·20	8	22	0	0	0
Winter Harbour	50 32	128 3						41·0			58·0	23	27·0	4	15·7																			3·09		0·72	14	16	0	0	0
Wilmer	50 34	116 11						42·3			76·0	21	14·0	5	31·3																			0·35		0·20	3	27	0	0	

YUKON :—																																										
Carcross	60	11	134	34	2171					23·7	—		46·0	30	−16·0	3	18·4																		0·35		0·25	2	28	0	0	0
Dawson	64	4	139	20	1200	30·03	31·09	29·32	1·77	23·8	—	4	59·0	30	−25·0	30	29·7					9	1	0	1	10	0	0	1	35	60				1·30	-	0·80	6	24	6	0	1
White Horse	60	45	135	0	2075							9																														
ALBERTA—																																										
Athabasca Landing	51	43	113	17	1650					34·3	—	8	75·0	21	−12·0	4	27·2					2	5	1	1	3	0	9	9	0	30				0·31	—	0·20	3	27	0	0	0
Alix	52	24	113	10						31·0	--	6	71·0	21	−19·0	4	26·8																		1·54	--	0·50	6	24	0	0	0
Banff	51	10	115	34	4542	29·97	30·48	29·48	1·00	33·0	− 3·6	16	63·0	21	−13·7	4	23·3				6	3	5	1	2	1	27	6	2	10	60				1·15	− 0·09	0·55	9	21	2	0	0
Blairmore	49	40	114	30	4225					35·4	—	1	66·3	21	0·6	4	27·6																		0·25	—	0·20	2	28	0	0	0
Calgary	51	2	114	2	3389	29·92	30·42	29·12	1·00	36·3	− 3·4	27	71·0	21	−13·0	4	24·8				1	1	5	1	7	1	1	1	18	19	60				1·06	+ 0·37	0·51	6	24	0	0	0
Cardston	49	12	113	18						35·6	—	7	70·0	21-24	− 9·0	3	26·8																		0·90	—	0·40	4	26	0	0	0
Didsbury	51	10	114	8	3300					38·5	—	9	76·0	21-24	−11·0	4	27·3					0	1	2	3	1	4	3	13	0	30				1·00	—	·50	3	27	0	0	0
*a*Dunvegan	55	56	118	35	1305																																					
Daysland	55	52	112	17																																						
Edmonton	53	33	113	30	2158	29·93	30·52	29·25	1·27	38·5	− 2·1	28	77·0	21	−15·0	4	26·7				5	7	6	0	4	11	6	9	13	1	60				0·15	0·39	0·21	5	25	5	0	0
Eckville	52	23	114	22						31·0	—	4	72·0	22	25·0	4	28·2																		1·00		0·80	2	28	0	0	0
Endiang	52	00	112	0	2795					35·5	—	1	75·0	21	5·0	3	26·1																					—		0	0	0
Fort Vermilion	58	27	116	3						27·6	—	5	61·0	21	−21·3	3	25·3																		1·85		0·60	8	22	7	0	0
Gleichen	50	59	112	51	2952					37·8	− 2·7	11	76·0	21	− 4·0	4	28·0																		0·80		·40	4	26	0	0	0
Gilt Edge	52	59	110	43						—	—	3	—	—	− 6·8	5	—																		0·55		0·15	4	26	0	0	0
Hillsdown	52	14	113	29	2806					35·7	—	8	75·0	21	−10·0	4	25·1					2	3	0	10	10	7	1	20	7	60				1·91		0·60	8	22	3	0	0
High River	50	35	113	53	3391					36·0	—	8	73·0	22-25	− 6·0	4	21·4																		1·18	—	0·25	8	22	0	0	0
Harmattan	51	45	111	23	3500					37·0	—	4	72·0	22	−17·0	5	26·6																		1·35	—	0·60	5	25	0	0	0
Halkirk. (Emsburg)										34·7	—	2	71·0	21	− 7·0	4	24·3					3	4	2	6	8	15	3	19	0	60				0·19	—	0·15	2	28	1	0	0
Lethbridge	49	42	112	51	2961					39·5	− 4·1	10	71·5	25	2·3	4	25·4																		0·89	—	0·33	10	20	0	0	0
Lethbridge (Exp. Farm)	49	43	112	51						37·8	—	4	75·3	21	0·4	4	27·3																		0·82	—	0·26	8	22	0	0	0
Lacombe	52	58	113	44	2783					35·1	—	4	76·0	21	−11·9	4	28·1																		1·15		0·35	8	22	0	0	0
Lawrence	50	16	113	26						37·7	—	4	75·0	24	0·0	4	30·7																		0·65		0·20	4	26	0	0	0
Lunnford	51	33	111	19						33·8	—	2	75·0	21	−21·0	4	29·6																		0·16		0·06	3	27	0	0	0
Loveland	52	30	111	59						—	—	1	78·0	21	− 9·5	4	—																		0·51		0·35	3	27	0	0	0
Medicine Hat	50	1	110	37	2161	29·92	30·17	29·43	0·74	41·2	− 3·1	27	80·0	21	3·2	5	28·7				0	6	1	3	2	9	1	11	10	11	60				1·49	+0·90	0·60	6	24	1	0	0
Macleod	49	44	113	24	3128					38·1	− 4·3	16	78·0	27	4·0	3	24·9																		0·45	0·08	0·25	2	28	0	0	0
Peace River Landing	56	15	117	15						32·7	—	4	74·0	30	−13·0	3-4	26·8																		0·15	—	0·15	1	29	4	0	0
Pembina	51	12	114	0						32·9	—	3	75·0	22	−16·0	4	27·6					11	5	1	1	4	6	11	15	0	60				0·20	—	0·15	2	28	0	0	0
Pakan (Victoria)	54	0	112	31						39·7	—	9	75·0	21	−16·0	4	30·2					8	9	6	0	8	8	14	1	3	60				0·46	—	0·11	5	25	2	0	0
Pincher Creek	49	0	111	4	3750																																					
Red Deer	52	16	113	49																																						
Spirit River	55	40	118	47						29·9	—	2	69·0	30	−18·0	4	25·4																		0·20	—	0·10	2	28	3	0	0
Threehills Creek	51	30	113	11						32·8	—	8	75·0	21	−15·0	4	26·1																		1·39	—	0·62	6	24	6	0	0
Tyrol (Moose)																																										
Wetaskiwin	52	58	113	23	2180					35·1	—	8	74·0	22	−11·0	4	21·6																		1·03		0·30	7	23	5	0	0
Waitefield	53	29	111	38	2000					34·9	—	7	74·8	21	−13·0	4	27·1				5	8	9	13	4	7	4	11	23	11	90				0·66	—	0·25	7	23	10	0	1
SASKATCHEWAN—																																										
Battleford	52	41	108	20	1620					39·4	+ 1·1	20	77·0	21	4·0	5	26·0																		0·05	0·36	0·03	2	28	0	0	0
Broadview	50	23	102	33	1960																																					
Brownlee	50	45	106	0						38·9	—	1	74·2	25	5·9	5	21·7					1	2	4	3	7	2	9	1	1	30				1·12	—	0·43	9	21	5	0	0
Boulin (White Fish Lake)										37·0	—	1	74·0	24-25	0·0	5·13	29·5																		0·62		0·50	3	27	5	0	0
Chaplin	50	26	106	39	2202					37·7	− 2·7	24	76·0	21	2·0	4	27·5					0	4	4	4	1	0	0	17	0	30				2·33	+ 1·05	2·03	9	21	6	1	0
Cannington Manor	49	13	102	2	2064					35·6	− 0·7	14	81·0	27	− 2·0	6	23·9																		0·59	—	0·20	4	26	0	1	0
Crescent Lake	50	59	102	25	1658					35·9	—	6	79·2	28	3·8	4	27·5					1	2	2	2	9	3	4	5	2	30				0·44	—	0·27	5	25	8	2	0
Duck Lake	52	54	106	20																																						
Estevan	49	12	103	4	1858					39·3	—	7	81·0	27	11·0	4	21·0					1	0	7	5	6	4	5	4	4	30				0·50	—	0·30	3	27	2	0	0
East End	49	31	108	49																																						
Foxleigh	50	37	104	29						37·6	—	5	71·0	25	− 1·0	5	24·6																		0·40	—	0·40	1	29	6	0	0
File Hills	51	4	103	31						31·6	—	1	70·0	27	−12·0	6	27·9																		r	—	r	0	30	0	0	0
Grenfell (Brownhill)	50	23	102	53	1957					39·2	—	9	80·0	27	3·0	6	28·8					4	5	2	15	7	5	6	16	0	60				0·53	-	0·30	5	25	3	0	0
Govan	51	17	104	51																																				3	0	0
Glenbryan (Larchmount.)										35·3	—	1	76·5	26	3·0	5	27·7					0	5	8	7	1	8	17	14	0	60				0·73	—	0·20	8	22	7	0	0
Humboldt	52	12	105	9						38·3	—	4	71·0	21	2·0	6	26·6																		0·66		0·16	2	28	0	0	0
Hubbard (Drumague)	51	5	103	21																																				0	0	0
Indian Head	50	28	103	40	1924					35·9	− 2·0	19	73·0	26	2·0	3-6	30·3					5	5	6	11	18	11	8	15	8	90	111	v	25 8	0·29	0·51	0·25	2	28	0	0	0
Kamsack	51	30	101	52																																						
Lloydminster	53	18	110	0						38·7	—	5	72·0	26	− 3·5	5	27·1																		0·50		0·30	2	28	0	1	0
Lanigan	51	51	105	2																																						
Luseland										35·5	—	1	75·5	25	2·0	4	26·3																		0·19	—	0·10	3	27	0	0	1
Moose Jaw	50	21	105	35	1759					39·0	+ 1·7	16	74·0		5·0																				0·77	+0·38				3	0	0
Moosomin	50	0	101	37	1884					39·0	—	9	82·0	27	8·0	6	26·4					2	0	9	1	9	1	5	2	1	30				—	—	—	—		0	0	0
Muenster (St. Peter's Monastery)	52	0	105	0	1870					37·9	—	6	85·0	26	8·0	3	21·5					0	8	0	0	0	13	0	9	0	30				0·25	—	0·25	1	29	4	0	0
Melfort	52	47	104	30						36·5	—	2	73·0	22	4·5	6	23·8																		1·57	—	0·17	4	26	7	0	0
Maple Creek	49	55	109	28																																						
Orion Lake	53	52	109	59						33·5		6	72·0	26	− 4·0	6	28·0					5	3	4	4	1	4	3	6	0	30				—		—	—		0	0	0
Oliver	51	46	108	10						37·2	—	2	74·0	20	4·0	6	28·4																		0·80	—	0·30	5	25	11	0	0
Pense (Gatesgarth)	50	20	105	0	1879					36·4	− 0·9	15	76·0	27	− 4·0	3-6	30·1					1	3	2	4	9	1	3	4	3	30				0·90		0·32	4	26	0	0	0
Prince Albert	53	10	106	0	1432																																					
Prince (Meota)	51	0	108	20	1700																																					
Qu'Appelle	50	30	103	47	2115																																					

PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA, APRIL, 1911.

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

STATION.	Latitude N.	Longitude W.	Elevation above sea level, in feet.	PRESSURE. Mean reduced.	Highest.	Lowest.	Range.	TEMPERATURE. Mean.	Difference from average.	Years observ'd	Highest.	Date.	Lowest.	Date.	Mean daily range.	Mean temperature of dewpoint.	Mean relative humidity.	Mean amount of cloud.	No. of days completely clouded.	DIRECTION OF WIND FROM N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.	Total number of observations.	VELOCITY OF WIND. Mean miles per hour.	Highest day's velocity.	Date and direction from.	PRECIPITATION. Amount.	Difference from average.	Heaviest fall in month.	Days with .01 or more.	No. of fair days.	No. of auroras.	No. of thunder-storms.	No. of fogs.
	° ′	° ′		in.	in.	in.	in.																																	
SASKATCHEWAN—*Con.*																																								
Regina	50 27	104 37	1885					36·9	+ 0·4	28	70·0	24	27	−2·0	6	26·1																	0·48	− 0·61	0·15	6	24	0	0	0
Rathmullen	51 20	108 57						35·5		2	77·5		26	−4·2	3	27·6																	0·38		0·10	6	24	0	1	0
Rosthern	52 10	106 20	1657					36·8		1	72·7	23	26	−1·7	6	32·9																	1·06		0·72	3	27	0	0	0
Swift Current	50 20	107 45	2439	29·98				39·0	− 2·0	25	76·0		21	2·0	5	24·2																	0·85	0·10	0·18	10	20	0	0	0
Saskatoon	52 15	106 30	1571					38·5	+ 2·6	13	75·0		23	6·8	6	23·0																	1·54	+1·18	1·01	14	26	0	0	0
Strassburg	51 5	104 56						37·2		2	73·0		12	3·0	6	25·0																									
Scott (Hearts Hill)	51 59	109 30																																						
Stanley Mission								30·2		1	72·0		25	−5·5	7	24·8				13	5	7	4	3	7	3	8	10	60				1·09		0·85	3	27	0	0	0
The Pas	53 19	101 15	890					33·0		1	70·0	21	25	−8·0	2	23·6																	2·64		1·41	5	25	0	0	0
Waseca	53 6	109 29						35·6		4	75·0		21	−5·0	5	27·2				0	5	2	4	1	7	6	5	0	30				0·39		0·29	2	28	3	0	0
Yarkton	51 11	102 29								2	74·0		28																			0·17		0·17	1	28	0	0	0
Yarbo (Fairfield)	50 39	102 4						36·5		1	83·0		28	6·0	1-3	27·6				1	1	1	1	7	1	3	8	1	30				0·19		0·19	1	29	6	2	0
MANITOBA																																								
Almasippi	49 11	99 20						40·1		9	83·0		28	3·0	2	26·7																	1·91		0·80	4	25	0	1	0
*a*Aweme (St. Alban's)	49 42	99 33	1180	28·71	29·18	28·30	0·88	41·7	+ 2·1	26	85·0		27	3·0	2	28·0																	1·40	+0·19	0·47	5	25	7	1	0
Brandon	49 51	99 57	1176					41·6	+ 2·5	23	83·8		27	7·0	2	28·6			5	1	1	27	3	21	5	10	2	20	1	90	1	111	13 S W	0·80	−0·15	0·30	4	26	0	0	0
Berens River	52 18	97 23	710					33·8		3	69·0		29	15·0	1	32·6																	1·30		0·40	5	25	1	1	0
Carberry	49 52	99 20	1258					—	—	6	—	—																					0·85		0·36	1	25	0	2	0
Carman	49 31	98 0	872																																					
Cypress River	49 33	99 3	1252																																					
Dauphin	51 8	100 2	957					39·1		1	72·1		29	3·0	2	24·8																									
Hillview	49 55	100 33	1100					39·9	+ 0·8	22	84·0		25	9·0	2	25·6			3	0	2	3	18	12	14	16	0	25	0	90				0·30	−1·02	0·20	2	28	0	0	0
Minnedosa	50 15	99 50	1620	29·99	30·46	29·43	1·03	39·0	+ 1·5	27	80·5		27	4·2	2-7	26·0			4	1	3	2	6	6	4	1	2	10	26	60				0·62	0·26	0·26	6	24	5	1	0
Morden	49 11	98 6	978					40·8		7	85·0		28	1·0	1	25·2																	1·86		0·71	4	26	0	0	0
Moose Horn Bay (Attikameville)	51 15	90 33						35·0		1	73·0		28	9·4	3	21·6					3	5	4	11	8	3	1	14	11	60				1·82		0·80	5	25	10	3	1
Ninga	49 14	99 51	1649					—	—	1	82·3		28	1·5	1																		1·10		0·90	5	25	0	1	0
Oakbank	49 57	96 12	800					—	—	25	78·0		28	—																			2·69	+1·53	1·89	9	28	0	0	0
Pipestone	49 34	100 58	1100																																					
Portage la Prairie	49 57	98 17	830					40·1	+ 0·6	21	80·6		28	7·0	1	22·2																	1·35	+0·03	0·69	5	25	0	0	0
Portage la Prairie (?)	49 56	98 17																																						
Pierson	49 11	101 5	1531																																					
Stony Mountain	50 10	97 14	803					39·7	+ 1·6	29	79·0		28	0·0	1	25·2					8	9	3	5	1·0	6	8	6	0	60	2·2	4·0		0·55	−0·26	0·70	2	28		0	0
Swan River	52 6	101 15	1112					38·4		3	75·0		23	−1·0	1	25·3																	0·31		0·31	1	29	0	0	0
Treherne	49 36	98 40	1212					40·8	+ 2·1	16	83·0		25	3·0	2	23·9																	2·32		1·22	5	25	5	1	0
Virden	49 51	100 55	1140																																					
Winnipeg	49 53	97 7	760	30·02	30·51	29·26	1·25	41·4	+ 2·8	35	80·0		27	5·0	1	23·0			4	3	18	1	5	17	2	2	5	6	4	6				2·57	+1·03	1·72	6	24	0	0	0
ONTARIO																																								
Alton	43 51	80 5	1250																																					
Aurora	43 57	79 24	886					40·5		3	77·0		30	11·3	3	21·2																	1·16	0·72	0·56	6	24	0	0	0
Agincourt	43 47	79 16	560					41·9	− 1·0	16	78·6		28	12·1	2	19·3																	1·26	−1·01	0·36	9	21	7	0	1
Barrie	44 23	79 41	839					39·8	+ 0·3	35	71·5		28	5·0	2	18·1			5	5	8	8	13	10	8	2	6	24	11	90				1·26	0·50	0·34	11	19	5	0	0
Beatrice	45 8	79 20	800					38·6	+ 0·1	11	75·0		28	3·0	3	23·2			5	7	3	1	3	15	7	1	2	17	38	90	1	111	13 S	1·78	0·36	0·61	6	24		0	0
Bruce Mines	46 18	83 55	595					38·0	+ 1·1	12	66·0		24	3·0	1	21·8																	1·83		0·51	7	23	1	0	0
Birnam	43 2	81 55	690					41·7	2·3	28	72·1		28	12·0	1	16·9					16	6	9	9	7	2	8	2	1	60				2·76	0·28	0·95	8	22	0	0	0
Brantford	43 10	80 21	750					43·8	+ 0·7	31	76·0		28	14·0	2	19·5																	1·92	+0·69	0·60	5	25	1	2	0
Bloomfield	43 59	77 21	290					40·1	3·6	13	72·5		30	9·0	3	19·9																	0·25		0·20	2	28	0	0	0
Bancroft	45 1	77 50						36·6	+ 0·1	20	77·0		29	10·0	1	26·0																								0	0
Copper Cliff	46 30	80 59						38·2		4	76·5		28	0·0	1	21·6																	1·69		0·75	5	25	0	0	0
Clinton	43 32	81 37						39·3		9	72·0	28	28	7·0	3	17·2					10	2	10	10	9	3	2	12	2	60				2·15		0·50	10	20	0	0	0
Coldwater	44 38	79 10	600																																					
Cottam	42 7	82 45	606					41·8	− 1·2	23	75·0		30	10·0	3	23·1					19	0	10	12	8	7	1	0	0	60				4·23	+1·85	1·50	8	22	0	0	0
Chatham	42 23	82 12	595					45·1	− 0·3	24	74·0	28	30	17·0	1	32·4																	2·38	+0·17	0·87	4	26	0	0	0
Cochrane	49 2	81 0	930	30·13	30·75	29·21	1·54	35·9	− 1·1	11	71·0	27	28	−6·0	1	22·1					0	9	3	0	1	8	1	6	30	60				0·80		0·30	4	26	2	0	0
Collingwood	44 31	80 2						45·9	− 1·5	15	78·0		28	12·0	1	32·3																	0·40	−0·60	0·10	5	25	0	0	0
East Toronto	43 35	79 18						41·1		5	77·0		28	11·0	2	19·1																	1·54		0·38	8	22	0	0	1
Elora	43 41	80 24	1271					40·5	+ 0·1	15	76·0		26	7·0	3	22·0																	1·83	−0·27	0·82	7	23	0	0	0
Gravenhurst	44 54	79 20						37·0	− 3·2	10	77·0		28	−1·2	2	25·1					7	1	18	13	5	1	10	9	26	90	2·0	4·3	4 E.	1·12	−0·19	0·56	4	26	5	0	0

ONTARIO—*Concluded.*																	
Guelph	43	33	80	16	1050	....	....	....	....	40·8	+ 1·9	23	71·0	28	12·0	3	17·3
*a*Grimsby	43	13	79	36	....	27·72	30·16	28·26	1·90	43·2	—	2	76·0	29	16·0	3	19·0
Haileybury	47	29	79	39	687	....	....	....	....	37·2	0·9	18	78·6	28	− 3·0	1	21·7
Hamilton	43	16	79	51	303	....	....	....	....	43·1	− 0·2	35	76·0	28	18·0	3	16·6
Haliburton	45	1	78	28	1050	....	....	....	....	37·5	− 3·5	22	78·0	28	− 4·0	2	27·3
Huntsville	45	19	79	8	....	....	....	....	....	38·8	—	5	77·0	29	5·0	1	25·9
Kenora	49	48	94	32	1102	....	....	....	....	35·4	− 2·1	12	70·0	27	− 3·0	1	11·4
Kakabeka Falls	48	29	89	26	912	....	....	....	....	35·3	—	3	71·0	27-29	−13·0	1-2	39·0
Kingston	44	13	76	29	285	30·14	30·69	29·39	1·30	39·5	− 2·1	36	67·0	30	9·8	2	18·5
Kinmount	44	45	78	38	920	....	....	....	....	38·3	− 0·2	12	75·0	29	− 4·0	2	21·0
Lucknow	43	56	81	30	908	....	....	....	....	39·4	− 3·4	27	75·1	27	5·0	3	19·1
Lake Talon	46	15	78	48	....	....	....	....	....	37·2	2·2	16	78·0	28	− 1·0	3	26·0
London	42	59	81	13	808	30·09	30·58	29·35	1·23	42·9	+ 0·1	28	76·0	28	14·5	3	20·5
Lakeside Home	43	10	79	24	....	....	....	....	....	40·1	—	7	62·0	26-28	18·0	2	13·8
Lorne Park	43	32	79	37	....	....	....	....	....	42·8	—	3	81·0	29	16·0	3	21·1
Lindsay	44	20	78	45	872	....	....	....	....	40·9	+ 0·9	28	78·2	28	5·5	2	22·0
Lakefield	44	25	78	15	850	....	....	....	....	42·5	+ 1·1	25	71·0	30	12·0	2	20·4
Meaford	44	37	80	37	600	....	....	....	....	....	....	....	....	....	....	....	....
*Midland	44	44	79	53	750	....	....	....	....	42·4	—	4	85·0	28	15·0	1	—
Madoc	44	30	77	29	575	....	....	....	....	40·7	—	7	77·0	28-29	7·0	2	21·7
Montague	44	56	75	57	....	....	....	....	....	39·7	—	2	79·0	29	0·0	3	23·3
Montreal River	....	....	....	....	....	....	....	....	....	34·9	—	1	77·0	28	− 7·0	1-2	30·1
*North Bruce	44	23	81	25	....	....	....	....	....	40·7	− 0·5	23	70·0	27-28	5·0	3	—
Owen Sound	44	34	80	55	597	....	....	....	....	40·6	+ 0·1	34	70·0	29	15·0	2	20·0
Orillia	44	34	79	21	775	....	....	....	....	41·1	− 0·9	16	77·0	29	7·0	2	22·8
Ottawa	45	26	75	42	291	30·11	30·69	29·37	1·32	38·9	3·8	28	79·0	29	2·0	3	20·7
*Ottonabee	44	20	78	18	674	....	....	....	....	45·0	+ 1·2	16	71·0	28	10·0	2	—
Port Arthur	48	27	89	12	644	30·08	30·60	29·38	1·22	35·1	0·0	30	57·0	27	− 2·0	1-2	18·7
Port Stanley	42	40	81	13	592	30·12	30·56	29·43	1·13	41·2	− 0·9	36	68·1	28	15·7	3	16·9
Port Dover	42	47	80	13	635	....	....	....	....	40·3	− 3·2	35	70·5	28	14·5	1	18·0
Port Burwell	42	39	80	55	592	....	....	....	....	41·1	—	8	71·0	28	15·5	3	17·2
Parry Sound	45	19	80	0	635	30·12	30·63	29·29	1·34	40·3	+ 0·3	35	76·0	28	7·0	1	22·3
Point Clark	44	5	81	44	595	....	....	....	....	—	—	39	—	—	3·0	1	—
Pelee Island	41	50	82	35	585	....	....	....	....	41·2	+ 0·1	30	62·5	26	29·5	5-16	7·2
Paris	43	12	80	25	810	....	....	....	....	43·6	− 0·2	22	78·0	28	15·0	2-3	19·8
Peterboro	44	17	78	19	722	....	....	....	....	41·3	− 0·7	41	78·0	28	5·0	2	21·4
Porcupine	....	....	....	....	....	....	....	....	....	33·2	—	1	78·2	28	−11·2	2	28·8
Renville	45	15	78	57	1038	....	....	....	....	36·8		4	76·0	28	1·0	2	22·5
Renfrew	45	26	76	39	416	....	....	....	....	39·9	1·4	23	83·0	28	1·0	2	21·9
St Catharines	43	9	79	17	347	....	....	....	....	44·7	—	1	76·5	28	18·0	3	22·8
Stonecliffe (Rockliffe)	46	9	78	6	557	30·12	30·71	29·38	1·33	35·7	− 4·0	33	75·0	28	− 8·0	2	24·9
Southampton	44	30	81	21	656	30·13	30·64	29·23	1·41	40·2	− 0·6	34	68·2	27-28	13·0	3	16·8
*Sarnia	42	59	82	24	586	....	....	....	....	43·7	+ 1·6	16	75·0	28	15·0	2	—
Stratford	43	23	81	0	1191	....	....	....	....	41·6	− 0·4	15	72·0	27	8·0	2	22·0
Stony Creek	43	13	79	45	292	....	....	....	....	43·2	− 0·7	28	78·0	28	17·0	3	18·1
Schreiber	48	50	87	15	....	....	....	....	....	33·6	− 2·6	11	62·0	28	− 9·1	1	20·3
Shelburne	44	5	80	47	....	....	....	....	....	37·9	—	2	73·0	29	6·0	3	17·5
Toronto	43	40	79	24	350	30·13	30·60	29·41	1·19	43·3	+ 0·2	71	76·0	28	16·3	2	17·5
Uxbridge	44	5	79	8	886	....	....	....	....	40·2	—	7	75·0	28	12·0	2	19·3
Uplands	45	18	79	25	....	....	....	....	....	36·1	− 2·2	23	78·0	28	5·0	8	26·0
Ursa	44	54	78	18	....	....	....	....	....	37·7	—	5	66·0	25-28	− 4·0	2	17·8
White River	48	35	85	16	1252	30·07	30·57	29·54	1·03	33·7	+ 0·1	22	70·0	27-28	−16·0	1	27·1
Woodstock	43	8	80	47	980	30·11	30·57	29·35	1·22	41·6	− 0·5	38	73·0	28	11·5	3	20·3
Welland	42	59	79	17	577	....	....	....	....	43·1	− 0·2	25	73·0	28-29	13·0	3	20·4
Windsor	42	20	83	4	625	....	....	....	....	44·6	− 1·1	36	73·0	29	21·0	2-3	16·2
Wallaceburg	42	35	82	24	....	....	....	....	....	41·8	—	6	73·0	28	20·0	2	20·1
QUEBEC—																	
Abitibi	48	13	79	22	....	....	....	....	....	31·3	− 0·5	15	67·0	28	10·0	3	23·6
*Anticosti, E. Point	49	6	61	42	30	....	....	....	....	30·0	+ 2·7	26	47·0	26	12·0	12	—
*Anticosti, W. Point	49	52	64	32	30	....	....	....	....	31·5	− 0·1	29	46·0	28	15·0	4 11	—
Brome	45	10	72	36	678	....	....	....	....	35·0	− 3·8	30	77·0	30	−11·0	2	21·9
*Bicquet	48	25	68	53	....	....	....	....	....	33·7	− 5·4	28	48·0	27	− 2·0	2	—
Clarke City	50	10	66	25	....	....	....	....	....	....	....	....	....	....	....	....	....
*Cape Chatte	49	6	66	45	....	....	....	....	....	33·6	+ 0·2	28	53·0	28	15·0	2-4	—
*Cape Magdalen	49	16	65	20	93	....	....	....	....	32·9	− 0·7	29	60·0	28	12·0	2	—
Chicoutimi	48	25	71	5	150	....	....	....	....	—	—	32	73·0	28	− 3·1	2	—
Chicoutimi (2)	....	....	....	....	....	....	....	....	....	35·8	—	1	82·0	27	2·0	4	19·7
Disraeli	45	55	71	21	896	....	....	....	....	32·5		1	71·5	30	−15·0	2	29·6
Father Point	48	31	68	19	20	30·06	30·69	29·40	1·29	31·3	+ 0·6	33	56·8	26-28	8·3	2	15·3
Lake Edward	47	39	72	15	1333	....	....	....	....	29·7	—	2	75·1	30	26·0	2	24·5
Montreal	45	30	73	35	187	30·12	30·73	29·42	1·31	40·0	− 1·7	33	78·3	29	8·1	2	15·1
Quebec	46	48	71	13	296	30·08	30·72	29·52	1·20	35·7	− 1·4	36	74·2	28	1·6	2	17·8
*Roberval	48	31	72	13	352	....	....	....	....	....	....	....	....	....	....	....	....

ONTARIO—*Concluded.*																									
Guelph																		1·82	+0·06	0·53	9	21	0	0	0
*a*Grimsby																		1·77	—	1·13	7	23	0	0	0
Haileybury					10	3	2	5	7	8	4	8	13	60	1·1	4·0	15 SW	1·09	−0·46	0·57	6	21	8	0	0
Hamilton																		1·79	−0·59	0·47	6	21	0	1	0
Haliburton																		0·10	−1·40	0·40	1	29	0	1	0
Huntsville																		—	—	—	—	—	0	0	0
Kenora																		1·56	—	1·06	2	28	3	1	0
Kakabeka Falls																		0·63	—	0·35	2	28	6	0	1
Kingston					7	15	3	7	1	12	12	2	1	60				2·03	+0·04	1·00	7	23	0	0	0
Kinmount																		1·92	−0·17	0·31	7	23	0	0	0
Lucknow																		2·01	−0·13	0·58	11	19	2	0	2
Lake Talon																		0·70	−1·93	0·30	3	27	6	0	1
London			6	12	6	7	0	16	0	0	16	21	0	90				3·98	+1·60	1·32	10	20	0	0	9
Lakeside Home																		—	—	—	—	—	0	0	0
Lorne Park																		1·44		0·50	7	23	0	0	1
Lindsay			1	5	13	2	5	20	7	8	1	31	3	90	2·0	4·0	18 E	0·99	−0·71	0·33	9	21	2	0	0
Lakefield																		1·05	−0·79	0·53	3	27	0	0	0
Meaford																									
*Midland																		1·25		1·25	8	22	3	0	0
Madoc																		0·71		0·54	5	25	2	1	0
Montague																		0·90	−0·86	0·35	4	26	6	0	0
Montreal River																		1·22	—	0·43	5	25	0	0	0
*North Bruce					1	0	16	4	17	7	16	29	0	90				1·85	+0·31	0·66	7	23	0	0	0
Owen Sound					11	2	0	1	27	5	0	11	0	60				—	—	—	—	—	0	0	2
Orillia					5	2	1	3	4	5	6	1	0	30				0·97	−1·00	0·35	6	24	0	0	0
Ottawa					5	4	10	5	8	3	18	6	1	60				1·62	−0·26	0·75	8	22	1	1	0
*Ottonabee					2	7	23	7	1	15	17	15	3	90				1·16	−0·60	0·53	7	23	0	0	0
Port Arthur			4	2	9	13	9	4	5	3	7	8	2	60				0·67	−0·96	0·34	2	28	0	0	1
Port Stanley			6	7	6	7	13	12	0	3	3	13	3	60				3·04	+0·46	0·87	14	16	0	0	4
Port Dover					3	2	6	3	2	3	9	2	0	30				3·01	1·56	0·46	12	18	0	0	9
Port Burwell																		2·29	—	0·78	4	26	0	0	0
Parry Sound			5	4	0	11	5	11	1	13	12	4	3	60				1·50	−0·64	0·50	5	25	2	0	0
Point Clark					21	3	12	6	9	1	4	2	0	58				1·62	−0·38	0·50	5	25	0	0	0
Pelee Island																		1·08	2·06	0·40	5	25	0	2	0
Paris																		2·21	+0·31	1·24	5	25	0	0	0
Peterboro																		1·64	−0·22	0·65	8	22	0	0	0
Porcupine																			—		—		0	0	0
Renville																		—	—		—	—	0	0	0
Renfrew																		1·60	+0·11	0·70	7	23	2	0	3
St Catharines																									
Stonecliffe (Rockliffe)					1	1	18	0	1	0	7	0	32	60				1·52	−0·12	0·38	7	23	3	0	0
Southampton			6	10	10	2	21	4	6	2	9	3	3	60				1·73	+0·06	0·43	11	19	0	0	1
*Sarnia																		1·40	0·15	1·40	1	29	0	0	0
Stratford																		2·58	0·30	2·58	7	23	0	0	0
Stony Creek			4	4	4	15	22	2	1	16	27	6	0	90	11	VI	13 SW	1·10	1·73	0·58	5	25	0	0	0
Schreiber																		1·27		0·70	5	25	7	1	2
Shelburne																		1·62		0·85	4	26	0	0	0
Toronto					6	3	25	0	2	3	12	7	2	60				1·54	−0·30	0·44	10	20	0	0	3
Uxbridge																		1·17	—	0·31	8	22	0	0	0
Uplands					7	0	9	0	9	1	18	1	15	60				0·87	−1·45	0·28	6	21	0	0	0
Ursa																		0·23	—	0·23	1	29	0	0	0
White River					7	1	7	1	6	4	11	0	23	60				0·21	−1·59	0·06	5	25	0	0	0
Woodstock		76	7	11	4	10	8	12	5	16	4	31	0	90	11 2	24·0	5 SW	2·13	−1·09	0·56	9	21	0	0	0
Welland																		0·97	−1·71	0·22	8	22	0	0	0
Windsor																		3·68	+1·72	1·38	10	20	0	0	0
Wallaceburg																		2·84	—	0·80	11	19	0	0	0
QUEBEC—																									
Abitibi			5	3	16	7	20	3	15	0	20	9	0	90	11	VI	13 S	0·51		0·30	3	27	1	0	0
*Anticosti, E. Point					16	6	20	4	9	5	13	13	5	90				2·05	—	1·20	3	27	0	0	5
*Anticosti, W. Point					12	10	14	6	11	0	4	33	0	90				0·79	0·71	0·30	5	25	0	0	1
Brome					25	6	6	3	15	3	30	1	1	90				0·20	1·37	0·10	2	28	0	0	0
*Bicquet					0	29	3	0	0	4	13	11	0	90				2·50	0·00	0·80	5	25	0	0	1
Clarke City																									
*Cape Chatte					8	2	13	0	0	10	26	2	29	90				1·15		0·60	4	26	0	0	0
*Cape Magdalen					2	5	2	5	12	0	2	15	17	90				1·08	1·72	0·80	9	21	1	0	2
Chicoutimi			5	3	0	6	0	21	0	17	0	16	0	90	111	VI	8 SW	0·85		0·50	6	24	2	0	0
Chicoutimi (2)																		r		r	0	30	0	0	0
Disraeli																		0·70	—	0·21	4	26	0	0	0
Father Point			6	2	6	8	5	2	4	8	15	10	2	60				0·63	−1·33	0·30	5	25	5	0	1
Lake Edward																		0·10	—	0·10	1	29	0	0	0
Montreal			4	1	4	0	12	8	1	29	11	1	0	60				1·09	−1·23	0·41	7	23	0	0	3
Quebec			6	5	0	22	0	0	2	16	16	3	1	60				1·54	−0·19	0·75	7	23	5	0	0
*Roberval																									

PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA, APRIL, 1911.

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

STATION.	Latitude N.	Longitude W.	Elevation above sea level, in feet.	Pressure.				Temperature.								Mean temperature of dewpoint.	Mean relative humidity.	Mean amount of cloud.	No. of days completely clouded.	Direction of wind from									Total number of observations.	Velocity of wind.			Precipitation.			Days with .01 or more.	No. of fair days.	No. of auroras.	No. of thunder storms.	No. of fogs.
				Mean reduced.	Highest.	Lowest.	Range.	Mean.	Difference from average.	Years observ'n	Highest.	Date.	Lowest.	Date.	Mean daily range.					N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.		Mean miles per hour.	Highest day's velocity.	Date and direction from.	Amount.	Difference from average.	Heaviest fall in month.				
QUEBEC.—*Concluded.*																																					
St. Anne de Bellevue	45 27	73 59						39·0	—	6	80·5	29	1·0	4	20·3																							
Shawinigan Falls	46 31	72 43						33·3		8	82·0	30	12·0	2	3 26·4																							
Sherbrooke	45 32	72 5	620					33·3		9	80·0	30	— 1·0	1	17·1																							
Shawbridge	45 54	74 3																																			
NEW BRUNSWICK—																																					
Chatham	47 3	65 29	21	30·07	30·70	29·42	1·28	37·2	— 0·6	36	78·5	30	7·0	3	21·3			5	5	3	8	11	1	0	8	11	9	6	60				0·84	— 1·91	0·56	7	23	0	0	0
Dalhousie	48 4	66 22	39					34·1	— 0·9	31	76·0	28	9·0	3	20·9					0	0	8	1	0	0	20	0	1	30				0·33	— 1·46	0·30	3	27	0	0	0
Fredericton	45 57	66 36	164	30·08	30·65	29·49	1·16	37·1	1·4	38	78·0	29	7·5	3	23·4		66	5	5	4	19	6	3	4	10	16	26	2	90	10·1	22·0	1 W	1·93	— 0·41	0·52	6	21	0	0	2
Grand Manan	44 47	66 46	19	30·06	30·68	29·08	1·60	39·3	— 0·3	26	71·8	29	14·0	3	15·5			5	5	1	12	1	0	2	12	11	19		60				1·19	— 2·19	0·49	7	23	1	0	3
Moncton	46 9	64 45	50					37·3	— 1·2	13	78·0	28	9·0	2	20·0					0	6	0	4	6	1	4	15	0	30				1·70		0·70	5	25	0	0	0
*Point Lepreaux	45 4	66 28	30					36·1	— 1·1	33	77·0	29	11·0	3				3	3	7	10	3	6	0	13	15	21	0	75	11·1	V	1 NW	1·87	— 0·77	0·44	5	25	0	0	5
St. John	45 17	66 4	70	30·07	30·69	29·53	1·16	37·4	2·1	38	66·5	29	11·5	3	15·4			4	4	6	12	1	7	5	2	4	16	7	60				1·34	— 1·63	0·32	10	20	1	0	3
St. Stephen	45 11	67 16	35					38·5	— 1·7	15	82·0	30	9·0	3	25·0																		1·81	— 1·75	0·71	6	24	0	0	0
Sussex	45 38	65 38	69					38·5	— 0·1	14	77·0	28	9·0	3	22·7																		1·51		0·59	5	25	0	0	0
NOVA SCOTIA—																																					
Antigonish	45 38	61 59	50					33·8	—	1	73·0	29	10·0	5	18·2																							
Halifax	44 39	63 36	88	30·04	30·61	29·56	1·08	38·5	— 1·6	36	79·2	29	13·6	12	18·8					10	18	2	2	6	4	3	13	2	60				3·10	— 1·42	0·92	10	20	0	1	2
Port Hastings	45 39	61 22	45					33·3	— 3·9	19	72·0	26	12·0	20	12·4																		1·25	— 1·94	0·75	3	27	0	0	0
Parrsboro'	45 23	64 19	10					35·4	+ 1·8	11	72·0	30	12·0	2	18·5																							
Sydney	46 10	60 10	35	30·01	30·57	29·48	1·09	34·8	— 2·0	57	75·0	28	13·0	5	16·0			6	7	19	6	3	1	3	10	12	3	3	60				2·75	— 1·36	0·99	10	20	0	0	0
*Sable Island, E. Point	43 58	59 46	25					35·6		10	41·0	30	23·0	3				5	18	0	11	2	20	0	22	0	70					4·85		4·00	5	25	0	0	7
Truro	45 22	63 18	77					35·3	— 2·5	35	73·4	29	7·2	12	20·4			5	6	11	12	3	4	6	17	15	18	1	90				1·76	— 1·08	0·30	10	20	1	0	3
Windsor	44 59	64 6	90					37·0	— 0·9	73·5	29	30	13·0	12	18·3																		2·64		0·95	7	23	0	0	0
*Whitehead	45 15	61 8	20					33·2	— 1·8	29	75·0	29	19·0	3	—					11	11	5	5	6	14	19	15	4	90				1·55	— 2·37	1·05	5	25	0	0	5
a Wolfville	45 7	64 20		30·00	30·58	29·49	1·09	37·9	— 3·0	12	75·2	28	15·2	3	19·1					5	15	3	2	2	4	10	8	0	60				3·04	+ 0·30	0·61	8	22	0	1	0
Yarmouth	43 50	66 2	65	30·09	30·70	29·62	1·08	37·4	— 2·8	30	72·4	29	18·5	3	14·5					11	8	3	1	1	5	7	19	2	60				2·97	— 0·85	1·02	8	22	0	0	4
P. E. ISLAND—																																					
Charlottetown	46 14	63 10	38	30·03	30·62	29·45	1·17	35·3	— 1·8	35	73·5	28	15·0	3	13·9					3	12	7	5	3	8	16	2	4	60				1·25	— 1·40	0·47	7	23	1	1	0
Charlottetown (2)	46 14	63 7	75					35·9		11	71·8	28	9·0	3	16·9																		1·11		0·37	7	23	0	1	0
Hamilton	46 25	63 48						36·2	+ 0·6	13	72·0	28	13·0	3	11·2					2	5	2	0	4	7	9	1	0	30				0·18		0·10	3	27	0	0	0
NEWFOUNDLAND—																																					
*Amour Point	51 28	56 51																																			
Burin	47 0	55 10	27																																		
*Cape Norman	51 38	55 52																																			
Fogo	49 43	54 17	30	29·96	30·11	29·32	1·09	30·9		2	54·0	27	11·0	5	8·7					6	17	5	3	2	7	9	5	4	58				2·78	— 1·10	12·18	6	0	0	2
*Point Rich	50 42	57 25	35					30·3	+ 0·3	28	42·0	16	10·0	4	11	—				12	28	6	4	8	6	13	13	0	90				0·13	— 0·26	0·08	2	28	0	0	0
Port aux Basque	47 35	59 10	27	29·98	30·48	29·38	1·10	31·7	—	3	53·5	29	15·5	4	5	10·6				11	9	12	1	1	7	13	9	2	60				1·65	—	0·62	9	21	1	0	2
St. John's	47 34	52 42	125	29·85	30·36	29·04	1·32	32·1	— 3·3	38	65·0	28	12·0	6	13·2					19	10	2	5	6	7	9	2	0	60				3·88	0·47	0·80	14	16	0	1	3
BERMUDA—																																					
Prospect	32 17	64 30	151	30·20	30·50	29·69	0·81	62·3	+ 2·2	21	72·1	8	52·1	15	11·6					8	19	2	1	7	9	3	11	0	60				1·72	— 3·18	0·98	6	24	0	0	0

PRECIPITATION AT STATIONS REPORTING RAIN, SNOW, WEATHER, &c., DURING APRIL, 1911.

STATIONS.	RAINFALL.					SNOWFALL.				REMARKS.
	Amount in inches	No. of Days ·01 or over	No. of Fair Days	Heaviest Fall in Month	Date	Amount in inches	No. of Days.	Heaviest Fall in Month	Date.	
BRITISH COLUMBIA—										
Alkali Lake										
Annis	0·85	4	26	0·35	18					Thunder on 9, 10.
Beaver Lake	0·81	5	25	0·55	17					
Coquitlam	1·78	5	25	1·00	18					
Denman's Island	1·61	4	26	0·80	9					
Ferguson	1·62	5	23	0·44	13	6·5	2	3·5	10	
Goldstream Lake	1·86	11	16	0·57	18					
Grand Forks										
Hydraulic	0·13	1	27	0·13	24	9·0	2	6·0	2	
Hornby Island	2·17	5	25	1·31	9					
Jordan River	3·10	11	18	0·80	10 18	1·0	1	1·0	11	
Jordan River (Bear Creek)	2·15	5	21	0·81	10	15·5	4	10·0	10	
Little Qualicum (French Creek, V.I.)	0·86	3	27	0·43	18					
Monte Creek	0·35	2	28	0·23	18					
Naas Harbour	4·47	8	21	1·25	18	2·0	1	2·0	7	
Skidegate	3·83	12	17	0·97	20	3·5	1	3·5	10	
ALBERTA—										
Bardo						2·0	1	2·0	3	
Bismark						12·1	5	3·7	1	
Bruederheim	0·18	1	25	0·18	25	3·5	4	2·0	2	Aurora on 20.
Bittern Lake	0·06	1	27	0·06	25	5·3	2	3.5	3	
Bantry										
Brooks	0·05	1	25	0·05	23	13·3	4	7·0	1	
Conjuring Creek						3·5	2	2·5	3	
Coutts										
Campsie	0·25	2	26	0·20	6	2·1	2	1·3	3	Aurora on 19, 20, 22. Thunder on 11.
Caldwell						13·8	9	1·0	1	
Dorenlee										
Elkwater										
Grassy Lake						6·0	3	1·0	29	
Jumping Pound	0·10	2	28	0·09	3	*	7			
Lacombe	0·40	2	27	0·27	25	4·5	1	4·5	3	
Langdon										
Loch Sloy						11·0	6	1·0	2	Fog on 11th.
Lyndon						16·3	3	14·6	3	
Lyodon (Playle Creek)	0·15	1	29	0·15	28	*	1	*	28	
Lineham						0·5	1	0·5	3	
Macleod						16·5	6	5·0	3	Fog on 26th.
Minda (Many Berries Ranch)						6·0	5	1·8	27	
Maycroft	0·15	1	27	0·15	28	11·0	2	6·0	3	
Mayton										
Okotoks						1·0	1	1·0	2	
Ponoka	0·25	2	26	0·15	19	5·8	2	4·0	1	
Pekisko						10·0	2	6·0	12	
Sion	0·11	1	22	0·11	25	7·5	7	3·0	11	Aurora on 7, 9, 10, 12, 17, 18, 19, 20, 21, 22, 25, 26, 27, 28, 30.
Seven Persons						18·7	4	12·1	28	
Tilley										
Wabamum										
SASKATCHEWAN—										
Carmichael										
Coulee										
Elm How										
Forks Swift Current (Gull Lake)	0·13	3	19	0·08	28	5·8	8	2·0	1	
Gull Lake						7·7	1	2·5	28	
Hanley										
Kindersley						12·0	4	8·0	11	
Kelvinhurst						4·0	2	2·0	1 2	
Last Mountain										
Maple Creek	0·12	1	20	0·12	29	10·6	9	3·0	2 30	
Willow Creek	1·02	1	28	1·02	29	3·0	1	3·0	2	
MANITOBA—										Aurora on 8, 16, 18, 20, 22.
Cartwright										Thunder on 11, 17.
Deloraine	0·01	1	24	0·01	27	4·8	5	2·0	4	Aurora on 8. Thunder 11th.
Gretna	1·05	2	25	0·60	13	11·0	3	6·0	13	
Norquay	0·53	2	23	0·35	11	14·0	5	6·0	13	
Rapid City	0·39	2	26	0·20	10	4·6	2	2·6	5	Aurora on 8, 16, 17, 19.
Rosebank	0·90	2	28	0·60	12	*	1	*	13	Thunder on 11.
ONTARIO—										
Arden										
Deer Park	1·18	6	24	0·51	5	3·8	2	2·0	2	
Dutton										
Emsdale	1·56	7	23	0·55	14					Aurora on 2, 17.
Goderich										
Georgetown	1·48	8	20	0·53	5	0·8	2	0·5	16	Aurora on 15, 16.
Grantham	1·41	8	22	0·55	5					
Grand Valley	1·06	6	22	0·42	5	2·3	2	1·3	3	
MacCue	0·40	1	28	0·40	14	1·0	1	1·0	5	
Orangeville	2·94	7	22	0·78	5	0·7	1	0·7	1	
Princeton	2·30	5	25	1·06	5					
Sydenham	1·42	2	27	0·80	15	1·0	1	1·0	4	
Strathroy	3·16	7	23	0·92	13					
Watford	2·55	9	21	0.77	20					
Westport	0·50	1	26	0.50	5	1·8	3	2·5	4	Aurora on 18.
Wooler	1·40	3	27	0·80	5					
Westminster	2·80	3	27	1·22	13					
Wiarton	1·39	4	24	0·51	4 13	5·0	2	4·0	6	Fog on 30.
Wesley	1·44	6	21	0.58	5	3·5	3	2·5	2	Thunder on 6, Fog on 30.
QUEBEC—										
Timiskaming	1·45	3	25	0·76	5	0·3	2	0·2	6	
Kipawa										
Quinze Dam	2·56	3	24	2·05	14	4·8	3	3·0	15	
NEW BRUNSWICK—										
Point Escuminac	0·25	3	26	0·12	19	4·0	1	4·0	5	Fog on 7, 15, 16.

MEAN PROPORTION OF BRIGHT SUNSHINE REGISTERED IN EACH HOUR OF THE DAY IN THE MONTH OF APRIL, 1911.

STATIONS.	Hours Ending 6 a. m.	7 a. m.	8 a. m.	9 a. m.	10 a. m.	11 a. m.	Noon.	1 a. m.	2 p. m.	3 p. m.	4 p. m.	5 p. m.	6 p. m.	7 p. m.	8 p. m.
Victoria	·02	·43	·60	·65	·75	·81	·81	·80	·77	·77	·72	·60	·39	T.	
Nanaimo	·09	·40	·62	·65	·69	·66	·66	·60	·63	·64	·68	·63	·52	·14	
Vancouver	·16	·49	·62	·62	·73	·73	·77	·68	·71	·68	·63	·65	·57	·21	
Agassiz	T.	·31	·52	·61	·63	·70	·67	·75	·71	·69	·72	·59	·27		
Tranquille	·11	·40	·71	·68	·78	·76	·71	·71	·69	·72	·66	·63	·49	·20	
Summerland	·29	·75	·67	·69	·90	·68	·88	·75	·69	·76	·72	·64	·47	·04	
Kamloops	·11	·49	·62	·70	·74	·79	·76	·71	·7.	·62	·60	·46	·33	·05	
Edmonton	·17	·35	·54	·65	·67	·65	·71	·61	·63	·61	·58	·50	·47	·21	
Lethbridge	·01	·28	·45	·58	·61	·62	·65	·70	·66	·67	·63	·55	·44	·40	·07
Lacombe	·12	·26	·42	·56	·69	·79	·74	·69	·66	·67	·65	·62	·41	·27	·01
Medicine Hat	·13	·46	·54	·66	·75	·78	·76	·83	·85	·76	·68	·59	·46	·07	
Dunvegan	....	....	....	....	....	....	....	....	....	....	....	....	....		
Fort Vermilion	.....	·10	·26	·39	·65	·65	·70	·71	·74	·65	·56	·34	·10	.....	
Battleford	....	T.	·14	·39	·57	·63	·68	·61	·64	·61	·59	·48	·15	T.	
Indian Head	·07	·40	·61	·73	·80	·77	·72	·72	·71	·69	·66	·51	·41	·06	
Moosejaw	....	....	....	....	....	....	....	....	....	....			....		
Rosthern	·06	·36	·61	·62	·72	·75	·69	·71	·75	·67	·62	·62	·44	·11	·01
Brandon	·02	·28	·56	·77	·81	·83	·80	·78	·71	·72	·68	·63	·35	·08	
Winnipeg	·13	·48	·63	·72	·78	·76	·72	·75	·73	·81	·71	·70	·55	·14	
Haileybury	·11	·55	·70	·73	·67	·66	·69	·69	·62	·58	·51	·49	·49	·24	
Woodstock	·02	·18	·33	·45	·49	·48	·53	·54	·51	·48	·44	·42	·31	·04	
Lindsay	·01	·11	·31	·54	·61	·61	·63	·61	·56	·53	·49	·43	·34	·10	
Barrie	.....	·27	·48	·60	·56	·62	·62	·59	·58	·56	·51	·53	·38	T.	
Toronto	.....	·17	·52	·65	·61	·61	·65	·65	·61	·57	·56	·52	·44	·08	
Kingston	·01	·22	·44	·61	·64	·59	·56	·58	·56	·51	·45	·37	·12	T.	
Ottawa	·19	·62	·72	·79	·73	·28	·77	·71	·72	·68	·63	·64	·53	·08	
Montreal	·03	·46	·61	·71	·70	·72	·73	·68	·71	·62	·50	·27	·13		
Quebec	.....	·30	·58	·70	·73	·74	·77	·76	·75	·75	·71	·60	·30	·02	
Sherbrooke	·20	·53	·61	·67	·68	·66	·67	·69	·65	·66	·61	·59	·48	·11	
Fredericton	·03	·48	·63	·65	·68	·68	·72	·74	·71	·64	·71	·64	·47	·14	
Charlottetown	·04	·25	·46	·54	·55	·54	·54	·56	·56	·52	·58	·50	·30	·05	

—	Victoria.	Nanaimo.	Vancouver.	Agassiz.	Tranquille.	Summerland.	Kamloops.	Edmonton.	Lethbridge.	Lacombe.	Medicine Hat.	Dunvegan.	Ft. Vermilion.	Battleford.	Indian Head.	Moosejaw.	Rosthern.	Brandon.	Winnipeg.	Haileybury.	Woodstock.	Lindsay.	Barrie.	Toronto.	Kingston.	Ottawa.	Montreal.	Quebec.	Sherbrooke.	Fredericton.	Charlottetown.	
Registered duration in hours.	216	228	248	216	217	288	233	223	220	228	219		176	165	257		232	240	261	232	156	177	189	200	171	258	206	231	226	210	18[illegible]	..
Percentage of possible duration	60	56	60	53	60	70	56	53	53	55	60		44	39	57		56	58	63	57	39	44	47	50	42	44	58	58	58	50	44	..
Difference from average	+15	+ 9		+21										−12	+19			15	+11		9	5	+2	[illegible]	5	−19	+ 8	−19		+1		..
Maximum percentage in one day	89	90	93	84	98	90	90	91	91	99	91		75	73	91		91	91	94	96	88	89	88	89	88	96	91	85	96	96	92	..
Date of maximum	4	25	25	20	28	26	20	28	11	28	15		22	10	18		11	6	21	11	21	9	3	21	7	21	3	20	26	25	12	..
No. of days completely clouded	0	5	0	1	2	1	1	3	3	3	1		3	1	3		2	2	3	3	8	1	3	1	4	1	2	2	2	5	6	..

Aurora recorded :—

Where the class of aurora is noted by the observer, it is given, (I), being the brightest, (IV) the feeblest in brilliancy.

1. Aitkensville, III; Treherne, III; Schreiber, IV; Lake Talon, IV; Lucknow, IV; Kenora, III; Chicoutimi, Haileybury, III; Aweme, III; Barrie, IV.

2. Emsdale, III; Bruce Mines, IV; Schreiber, IV; Kakabeka Falls, II; Haileybury, III; Gravenhurst, I.

3. Grand Manan, IV.

6. Fort Vermilion, III.

7. Sion, Boutin, II.

8. Rapid City, II; Cartwright, I; Yarbo, III; Glenbryan, Chaplin, IV; Brownlee, III; Boutin, II; Peace River Landing, Aitkensville, II; Treherne, III; Agincourt, II; Kakabeka Falls, III; Charlottetown, IV; Father Point, III; Aweme, II.

9. Sion, Muenster, I; Melfort, III; Waitefield, II; Agincourt, III; Lake Talon, Kakabeka Falls, I; Kenora, III; Brantford, IV; Parry Sound, II; Quebec, III; Stonecliff, II; Haileybury, II.

10. Sion, Kenora, II.

12. Sion.

14. Spirit River; Oliver.

15. Waseca, Melfort, II; Glenbryan, I; Foxleigh, Chaplin, IV; Crescent Lake, III; Grenfell, III; Boutin, IV; Chilcoten, III; Halkirk, Westaskiwin, Waitefield, II; Aweme, II; Treherne, II; Bruce Mines, IV; Renfrew, Montague, Madoc, II; Abitibi, St. John, III; Quebec, IV; Father Point, III; Haileybury, IV; Gravenhurst, II; Lindsay, IV; Fort Vermilion, I; Spirit River; Oliver.

16. Rapid City, II; Cartwright, Georgetown, III; Yarbo, II; Muenster, IV; Melfort, III; Glenbyran, I; Foxleigh, Estevan, III; Chaplin, IV; Crescent Lake, III; Grenfell, III; Boutin, II; Halkirk, Pakan, III; Threehills Creek, IV; Waitefield, IV; Aitkensville, IV; Aweme, III; Treherne, IV; Agincourt, IV; Bruce Mines, IV; Schreiber, III; Midland, Kakabeka Falls, IV; Montague, Madoc, IV; Cape Magdalen, Parry Sound, IV; Quebec, IV; Father Point, III; Stonecliff, II; Minnedosa, IV; Gravenhurst, II; Lindsay, IV; Stuart's Lake, Spirit River; Barrie IV; Oliver.

17. Sion, IV; Rapid City, I; Emsdale, III; Georgetown, IV; Yarbo, II; Muenster, II; Melfort, IV; Glenbryan, I; Foxleigh, Crescent Lake, IV; Brownlee, Pakan, IV; Waitefield, I; Aitkensville, IV; Agincourt, IV; Lake Talon, Midland, Montague, Minnedosa, III; Haileybury, III; Red Deer, I; Oliver.

18. Sion, II; Cartwright, Westport, Melfort, IV; Glenbryan, I; Foxleigh, Esteven, IV; Crescent Lake, IV; Chilcoten, III; Aitkensville, III; Aweme, IV; Treherne, III; Bruce Mines, II; Schreiber, IV; Lake Talon, IV; Midland, Renfrew, Montague, Chicoutimi, Quebec, III; Stonecliff, II; Cochrane, II; Haileybury, III; Red Deer, IV; Stuarts Lake; Barrie, IV; Oliver.

19. Sion, II; Campsie, III; Rapid City, I; Glenbryan, I; Foxleigh, Chaplin, IV; Brownlee, Chilcoten, IV; Halkirk, Threehills Creek, III; Wetaskiwin, Waitefield, III; Aitkensville, IV; Agincourt, IV; Schreiber, IV; Lake Talon, IV; Montague, Quebec, III; Ottawa, III; Minnedosa, III; Haileybury, II; Red Deer, IV; Barrie, IV; Oliver.

20. Bruederheim, Sion, II; Campsie, III; Cartwright, III; Glenbryan, I; Foxleigh, Chaplin, I; Brownlee, Bella Coola, IV, Chilcoten, III; Halkirk, Hillsdown, IV; Peace River Landing, Threehills Creek, III; Wetaskiwin, Waitefield, II; Aitkensville, IV; Aweme, II; Agincourt, IV; Cochrane, III; Gravenhurst, IV; Red Deer, IV; Barrie, IV; Oliver.

21. Sion, III; Cartwright, Melfort, IV; Hillsdown, III; Peace River Landing, Wetaskiwin Waitefield, IV; Aitkensville, IV; Agincourt, IV; Schreiber, IV; Lake Talon, IV; Kakabeka Falls III; Red Deer, II; Oliver.

22. Sion, II; Campsie, IV; Cartwright, IV; Yarbo, III; Melfort, III; Chaplin, I; Crescent Lake, III; Grenfell, II; Brownlee, Hillsdown, III; Peace River Landing, Wetaskiwin, Waitefield, IV; Brandon, Aitkensville, III; Aweme, III; Schreiber, IV; Kakabeka Falls, IV; Minnedosa, III; Haileybury, III; Gravenhurst, IV; Red Deer, IV; Oliver.

23. Yarbo, IV; Waseca, Crescent Lake, IV; Waitefield, IV; Lucknow, IV; Minnedosa, II; Truro, IV; Red Deer, I; Oliver.

24. Muenster, IV; Crescent Lake, IV; Aitkensville, IV; Montague, Fort Vermilion, I; Oliver.

25. Sion, II; Crescent Lake, IV; Waitefield, III; Red Deer, I.

26. Sion, IV; Waseca, Crescent Lake, IV; Threehills Creek, IV; Red Deer, I.

27. Sion, II; Yarbo, IV; Threehills Creek, IV; Father Point, III; Red Deer, I.

28. Sion, II; Father Point, III; Red Deer, I.

29. Boutin, I; Threehills Creek, I; Red Deer, I.

30. Sion, Waitefield, III; Red Deer, IV.

Thunder recorded :

4. Haliburton.
5. Madoc.
6. Wesley, Hamilton, Brantford.
7. Charlottetown.
9. Annis.
10. Annis, Quesnel: Lloydminster.
11. Campsie, Cartwright, Rosebank, Yarbo Rathmullen, Chaplin, Crescent Lake, Ninga, Aweme, Carberry, Almasippi, Treherne, Minnedosa, Deloraine.
13. Schreiber.
15. Ottawa.
24. Glacier.
25. Rathmullen.
27. Cartwright, Yarbo, Foxleigh, Cannington Manor, Crescent Lake, Kenora, Berens River.
28. Berens River.

FORECASTS FOR APRIL, 1911.

The forecasts issued by this office at 11 p.m. each night are posted up at every telegraph station in Canada, and are for the 24 hours beginning at 8 a.m. the following day.

The number of these predictions issued during the month was 1118. These were divided as follows :—

District.	No. Issued.	Verified.			
		No. Fully	No. Partly	No. Not	Per-centage.
Alberta	71	56	18	0	87·8
Saskatchewan	71	67	6	1	91·6
Manitoba	75	60	14	1	89·3
Lake Superior	98	78	14	6	86·7
Lower Lake Region	103	77	23	3	85·9
Georgian Bay	105	82	20	3	87·6
Ottawa Valley	81	69	9	3	90·7
Upper St. Lawrence	81	68	12	1	91·3
Lower St. Lawrence	93	78	12	3	90·3
Gulf	108	90	15	3	90·3
Maritime Provinces West	113	91	12	7	88·5
Maritime Provinces East	113	94	13	6	88·9
Total	1118	913	168	37	89·2

In order to obtain the percentage of verification of the predictions, the number partly verified is divided by two and added to the number fully verified, and the result divided by the total number issued.

In ascertaining to what extent the predictions have been verified, the reports from the agents at all observing stations, as well as the telegraphic reports, are used.

R. F. STUPART, Director.

Meteorological Office, Toronto,
May, 1911.

DEPARTMENT OF MARINE AND FISHERIES, CANADA.

METEOROLOGICAL SERVICE.

Monthly Weather Review.

VOL. XXXV. MAY, 1911. No. 5.

INTRODUCTION.

In compiling the present Review the principal data made use of are the telegraphic reports of observations received at this office for the purpose of weather forecasting, and reports by mail from voluntary observers and storm signal agents. For the data used in tracing the paths of areas of high and low pressure in the United States, we are indebted to the Chief of the Weather Bureau, Washington, D.C.

GENERAL SYNOPSIS.

In British Columbia wet, cool weather retarded the growth of vegetation during the month of May. Over the southern portion of the province rain occurred very frequently during the first two weeks; in some districts, indeed, daily. Like conditions persisted throughout the third week in many sections of the Kootenays, but the last week, however, was fine and much warmer throughout the province. In the Cariboo district precipitation occurred on fewer days than elsewhere, but temperatures were just as unseasonally low.

The month began with bright, warm weather in Alberta, while from the 3rd to the 7th temperatures were very high, maxima of 85° and higher occurring in the greater part of the province, and 90° or higher in the southwest, Medicine Hat reporting 99° on the 5th. From this date until the last two days of the month much cooler weather intervened, sharp night-frost occurring on the 7th, from the 9th to the 11th and on the 24th and 28th. Showers occurred about the 9th or 10th, 15th to 17th, 20th and 25th. Light falls of snow occurred in several districts on one to three days during the last week.

In Saskatchewan conditions were much the same as in Alberta, except that the period of heat which reached its climax on the 5th, was more pronounced, temperatures of 90° and higher occurring over a very large portion of the province.

During the month of May the province of Manitoba experienced four periods of warm weather. The dates of these were the 5th and 6th, the 8th and 9th, the 17th and 18th, the 30th and 31st. The highest temperatures of the month were registered on the 17th, exceeding 85° in all districts and 90° in many. On the nights of the 2nd and 3rd, the 12th and 21st sharp frosts were of general occurrence. The first nine days were fine but showers occurred on from 8 to 12 days during the remainder of the month. Snow fell to a considerable depth on or about the 11th at Aweme, Morden and Treherne, but in other districts of the province no snow in measurable quantities was recorded.

The mean temperature of the month of May of this year was in Ontario, higher than that of any other May, previously on record. That of May, 1896, approached nearest. The first three days of the month promised nothing of the extreme heat to come. Flurries of snow occurred in many districts and heavy night frosts were of general occurrence till the 7th, ice forming in exposed places to a thickness of one-eighth to one-quarter of an inch. On the 7th began a period of heat which lasted continuously except for a cold interval on the 12th or 13th until the 24th. Moderate temperatures ensued till the 26th, which together with the two following days was very warm. Maximal temperatures during these periods ranged between 80° and 99°. The rainfall of the month was very scanty in southern and eastern Ontario. In the Georgian Bay counties and in Algoma and many parts of the Thunder Bay and Rainy River districts an excess over normal was reported by several observers.

In western and central Quebec weather conditions were very like those which obtained in Ontario. From the 7th to the end of the month there were very few cool days. From the 20th to the 24th the heat was at its maximum, many stations recording 90° or higher on four successive days. The rain-

fall was much less than the normal quantity, although in some districts it was recorded on from 9 to 11 days. In Eastern Quebec, especially the Gaspé counties, although the mean temperature of the month was higher than normal, the heat was not so great and rain fell in greater quantities, the total precipitation of the month exceeding the average for May.

The month was very hot and dry throughout the Maritime Provinces. From the 19th to the 22nd and on the 27th and 28th, temperatures exceeding 90° were recorded. Sharp frosts occurred on the first three nights and on the 6th, 8th and 11th. In many counties rain was recorded on one or two days only.

ATMOSPHERIC PRESSURE.

The mean atmospheric pressure exceeded the average over Northern British Columbia, the greater part of Ontario, Quebec and the Maritime Provinces, while subnormal values were recorded over Southern British Columbia, the Prairie Provinces, the Lake Superior district and the Gulf of St. Lawrence.

The greatest departures from normal were +0·08 of an inch at St. John, N.B., and —0·09 of an inch at Medicine Hat.

HIGH AREAS.

Six areas of high pressure were charted and there were several minor local areas not considered. Of the six areas three first appeared on the United States Pacific Coast, two on the Northern British Columbia Coast and one to the northward of Manitoba. All of the systems eventually traversed the continent and passed off the Atlantic Coasts. The United States Pacific areas showed a marked tendency to push northward, especially the one appearing off the North Pacific States on the 18th, a portion of which spread north into Alaska and the Yukon Territory when it recurved southeastward, eventually following in the wake of the primary part of the system which had previously travelled over Canada to the Gulf of St. Lawrence and Newfoundland.

LOW AREAS.

Nine areas of depression were sufficiently defined to allow of their paths being traced while there were a few others of feeble energy and of short and erratic courses which were not charted. Of the nine areas, two first appeared in the vicinity of Northern British Columbia, four in the West Pacific States, one in the Western States and two in Eastern Canada. The area which passed into the Gulf of St. Lawrence from Labrador on the 5th and thence over Newfoundland and the area which formed in Southern Dakota on the 20th and with greatly increased energy afterwards, traversed the Great Lakes and the St. Lawrence Valley were two of the most important depressions of the month, although several of the remaining areas were quite pronounced in our Western Provinces.

WINDS, MAY, 1911.

PROVINCES AND STATIONS.	Total Mileage.	Greatest Mileage in 24 hours.	Greatest Mileage in one hour.	Number of Gales.	Number of Strong Winds.	Number of Fresh Winds.	General Direction.
BRITISH COLUMBIA.							
Victoria	6438	362	30	1	9	13	S.W.
Point Garry	6321	533	38	4	11	7	
Triangle Island	8111	959	51	7			N.W.
ALBERTA.							
Sulphur Mt., Banff	11703	806	16	8	8	6	S.W.
Edmonton	5557	348	24		1	10	W.
SASKATCHEWAN.							
Swift Current	9235	570	41	3	10	10	S.W.
Prince Albert	5281	395	28		2	12	E. & S.
The Pas	6368	457	40	2	2	11	E.
MANITOBA.							
Winnipeg	9353	199	31	2	11	8	W. & N.
ONTARIO.							
Port Arthur	7717	511	31	1	8	15	E. N.E.
Parry Sound	5105	385	23		2	7	S.W.
Pelee Island	6896	382	25		1	14	S.W.
Toronto	6858	186	37	1	5	7	S.W.
Guelph	7711	172	34				N.W.
QUEBEC.							
Quebec	9899	598	42	6	11	8	N.E. & S.W.
Father Point	14850	626	45	11	7	5	W.
Anticosti	9329	561	37	2	13	11	S.E.
MARITIME PROVINCES.							
Fredericton	6979	406	27		7	10	S.W.
St. John	7728	473					S.
Pt. Lepreaux	8799	713	41	5	12	7	S.W.
Halifax	8681	637	40	4	9	8	W.
Flat Pt.	9635	627	42	4	8	9	S.W.
Sable Island	13286	711					S.W.

TEMPERATURE.

From the Pacific coast to eastern Saskatchewan the weather of the month of May was cooler than is normal to that portion of the Dominion, while from Manitoba eastward to the Atlantic Ocean the heat was many degrees abnormal. In Ontario no such heat has been experienced during the month of May in any year of record. And this is also true of a great portion of the Maritime Provinces.

In British Columbia mean temperatures were from 1° to 3° lower than normal, in Alberta 1° to 4° in the eastern portion and about normal in the western. In Saskatchewan there was a deficiency of about 3° in the western districts but near the Manitoba boundary temperatures were nearly normal.

In Manitoba mean temperatures exceeded the normal mean temperatures of May by 1° in the extreme western portion and by 4° to 7° in the eastern. The excess over normal increased through the Lake Superior region to from 7° to 9° in southern Ontario and the Ottawa Valley. In western and central Quebec there was an excess of 5° to 8° but in the Gulf counties of only 3° or less, while in the Maritime Provinces it ranged between 2° and 6°.

The highest and lowest temperatures recorded in each Province during the month of May, 1911, were:

	HIGHEST.	LOWEST.
British Columbia,	90° at Alberni on the 31st and Enderby on the 31st	18° at Chilcotin on the 9th.
Alberta,	99° at Medicine Hat on the 5th	16° at Blairmore on the 23rd
Saskatchewan,	91° at Battleford on the 5th and Chaplin on the 5th	10° at Grenfell on the 1st.
Manitoba,	94° at Moose Horn Bay on the 18th,	10° at Pierson on the 1st.
Ontario,	99° at Collingwood on the 27th and Pelee Island on the 19th	7° at Matheson on the 4th.
Quebec,	95° at Chicoutimi on the 21st	16° at Abitibi on the 4th.
New Brunswick,	96° at Grand Manan on the 17th	20° at St. Stephen on the 5th.
Nova Scotia,	89° at Halifax on the 22nd	12° at Antigonish on the 16th.
P. E. Island,	83° at Charlottetown on the 22nd	28° at Charlottetown on the 17th.

PRECIPITATION.

The precipitation of the month was generally well in excess of average in British Columbia although deficiencies were reported from some northerly districts. And the same is true of Alberta and Saskatchewan also. In Manitoba the precipitation was very heavy, in some cases exceeding the normal by as much as four inches. An excess was also reported from the Lake Superior districts and the Georgian Bay counties, but in the remainder of Ontario, in the Maritime Provinces, and all Quebec except the Gaspé and North Shore counties, there was a marked deficiency.

PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA, MAY, 1911.

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

STATION.	Latitude N.	Longitude W.	Elevation above sea level, in feet.	PRESSURE. Mean reduced.	Highest.	Lowest.	Range.	TEMPERATURE. Mean.	Difference from average.	Years observ'd.	Highest.	Date.	Lowest.	Date.	Mean daily range.	Mean temperature of dewpoint.	Mean relative humidity.	Mean amount of cloud.	No. of days completely clouded.	DIRECTION OF WIND FROM N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.	Total number of observations.	VELOCITY OF WIND. Mean miles per hour.	Highest day's velocity.	Date and direction from.	PRECIPITATION. Amount.	Difference from average.	Heaviest fall in month.	Days with .01 or more.	No. of fair days.	No. of rare rain.	No. of thunder storms	No. of fogs.
				in.	in.	in.	in.																																		
BRITISH COLUMBIA																																									
Alberni (Beaver Creek)	49	15	124	49	390																																				
Agassiz	49	11	121	31	52			54 6	— 3·3	16	90·0	31	31·0	22 26	22 6																									
Atlin	59	35	133	38	2240	29·92	30·50	29·33	1·17	41·1	—	4	59·0	16 25	22·0	11	18 2																								
Barkerville	53	2	121	35	4180	29·87	30·25	29·19	1·06	41·5	2·5	23	61·0	30-31	22·0	7	21 9		5	1	0	0	0	4	6	6	2	0	11	62	2·6	20·0	—								
Bella Coola	52	40	126	54				51·0	— 1·1	13	75·0	1	30·0	11	25 2																									
Babine Lake	55	38	126	26																																				
Boswell																																								
Chilcotin	51	10	123	0	3100			49·3			73·5	30	33·0	7	18 2																								
Cranbrook	49	30	115	50				45·0			80·0	30	18·0	29	29 8																								
Clayoquot	49	11	125	47	40			48·3			83·0	31	21·0	1	27 8																								
Cowichan (Tzouhalem)	48	25	123	42	170			49·5	0 4	12	71·0	30	36·0	10	15 1																								
Chilliwack	49	10	121	57	21			52·3			80 8	31	39·2	24	9 4																								
Enderby	50	32	119	7	1180			52·4	3·3	12	89·0	31	36·0	20	16 9																								
Fort St. James (Stuart's Lake)	54	28	124	12	2280			54·0			90·0	31	28·0	6	27 6																								
Fairview	49	11	119	36				44·0	+ 0·5	18	79·5	16	21·0	11	26 3																								
Fruitvale	49	9	117	31				56·6	—		89·0	31	35·0	23	27 9																								
Glacier	51	11	117	29	1072			49·5			86·0	31	28·5	1	25 7																								
Golden	51	16	116	55	2550			41·2	— 3·8	12	66·0	31	25·0	7	6 3																								
Grand Forks	49	2	118	27				48·6	2·8	10	80·0	31	27·0	1	25 3																								
Holberg	50	39	128	18				52·3			87·0	31	30·0	23	24 5																								
Hedley	49	35	120	10	1771			47·7			66 8	26	36·0	5	11 1																								
Hedley (Nickel Plate)								51·1			68·7	31	30·0	8	23 8																								
Hope	49	23	121	25				28·9			64·8	1	10·0	9	13 9																								
Ikeda Bay	52	17	131	7	3			52·6			83·0	31	32·0	8	20 9																								
Kamloops	50	41	120	29	1215	29·85	30·25	29·31	0·91	48·3	—		62·0	15 16	38·0	18	22 1	67																						
Ladner	49	5	123	1				53·6	1·7	16	88·5	31	31·8	9	23 6		57	8	12	1	0	11	5	13	1	14	2	12	62	5·3	17·0	—								
Massett, Q.C.I.	53	58	132	9	30			54·2	+ 2·2	11	71·0	30	35·0	10	29 3																								
aNanaimo	49	10	123	37	125	29·88	30·35	29·14	1·21	48·7	— 0·2	13	60·0	11 29	27·0	2	16 6																						
Nicola Lake	50	10	120	39	2120			51·9	— 1·1	11	78·1	30	37·0	6	16 7		81	6	8	0	1	2	11	1	1	2	17	22	60	7·8	35·0	—								
North Nicomen	49	12	122	2	50			49·7	1·8	16	80·0	31	29·0	9	25 6																								
New Westminster	49	13	122	54	350			52·3	2·1	19	81·0	31	36·0	23	18 8																								
Nelson	49	29	117	21	1760			51·7	2·3	22	78·3	31	36·1	23	16 0																								
Needles								50·8			85·0	31	33·0	7	11 22 0																								
Okanagan Mission	49	52	119	29	1200			52·6			83·0	30	32·0	1	7 25 0																								
Princeton	49	29	120	29	1650			54·1	1·2	13	87·0	31	33·0	1	26 23 9																								
Penticton	49	29	119	35				49·3	2·1	11	85·0	31	27·0	23	28 7																								
Pemberton Hatchery	50	20	122	33				53·9			80·0	29	33·0	1	7 23 5																								
Prince Rupert	54	18	130	18	170	29·98	30·15	29·33	1·12	52·1			85·0	31	31·5	1	23 24 8																								
Quesnelle	52	50	122	30	1700			46·0			67·0	23	31·0	8	15 7		75	7	11	2	5	2	10	5	13	8	4	13	62	4·0	10·0	—								
Revelstoke	51	0	118	6	1476			49·2			78·0	16	21·0	7	21 29 2																								
Rossland	49	5	117	48	3100			50·6	1·0	13	82·5	31	23·0	3	27 8																								
Ruskin (Stave Falls)	49	16	122	23	125			48·1			78·5	31	32·0	7	16 9																								
Salmon Arm	50	42	119	35	1152			54·0			86·0	30	40·0	8 13	18 5																								
Steveston (Garry Point)	49	21	123	17				53·9	0·2	10	88·0	31	31·0	7	24 1																								
Swanson Bay	50	37	128	53				50·9	1·3	16	69·5	31	34·0	6	15 5																								
Salt Spring Island	48	50	123	20				50·1			66·0	21	33·0	1-12	16 7																								
Summerland	49	57	119	0	1100			53·1	—		87·0	31	32·0	7	20 9																								
Sooke	48	11	123	44	25			50·3			68·0	25	32·0	8	17 8																								
Stewart	56	1	130	1	215			44·8			69·5	25	28·0	7	9 22 0																								
Tobacco Plains (Elko)	49	1	115	5	2681			52·1	0·6	15	79·0	31	33·0	7	21 6																								
Triangle Island	50	52	129	5	680																																		
aTranquille	50	41	120	29		28·65	29·07	28·04	1·03	55·0			88·0	31	34·0	9	23 8		78	5	2	3	11	4	7	0	17	8	9	0	62								
Vernon (Coldstream Ranch)	50	14	119	15	1571			51·5	— 2·8	17	87·0	31	33·0	9	11 26 4																								
Victoria	48	24	123	19	85	29·96	30·46	29·19	1·27	52·3	— 1·2	19	72·4	31	37·5	11	15 9		72	6	5	7	3	0	3	7	23	9	2	8	62	9·1	30	18 S W							
Vancouver	49	17	123	5	136	29·97	30·48	29·27	1·21	52·2	— 1·8	11	74·5	30	39·0	23	14 3		77	6	12	2	0	11	13	3	2	8	8	12	62	4·2	12·0	—							
Winter Harbour	50	32	128	3				46·7	— 1·7	15	66·0	29	33·0	22	23 15 6																								
Wilmer	50	34	116	11				48·5	—		86·0	31	25·0	9	27 0																								

YUKON :—																																										
Carcross	60	11	134	34	2171					40·1	—	4	61·0	26	20·0	12	18·7																		1·38	—	0·51	5	26	0	0	0
Dawson	64	4	139	20	1200	29·89	30·56	29·37	1·19	46·1	− 1·4	10	66·0	25·29	23·0	13	20·7			8	1	10	1	0	0	3	0	0	1	44	62				1·68	+0·67	0·40	17	11	0	1	0
White Horse	60	45	135	0	2075																																					
ALBERTA—																																										
Athabasca Landing	54	43	113	17	1650					48·4	—	8	80·0	5	24·0	8	27·7					2	1	1	3	3	5	15	1	0	31				1·87	—	0·96	7	21	0	0	0
Alix	52	24	113	10						47·9	—	6	80·0	5	27·0	22	25·0					0	3	3	6	4	6	2	7	0	31				2·25	—	0·70	6	25	0	0	1
Banff	51	10	115	34	4542	29·90	30·26	29·10	1·16	43·1	− 1·8	16	74·4	31	21·3	28	21·6				12	4	7	2	3	1	27	6	0	12	62				1·35	−1·34	0·43	11	17	1	0	0
Blairmore	49	40	114	30	4225					43·4	—	1	75·2	5	16·3	23	23·3																		5·88	—	1·09	9	22	0	0	0
Calgary	51	2	114	2	3389	29·83	30·18	29·18	1·00	47·3	− 1·5	27	83·0	5	26·0	1-2	22·1				7	3	11	2	6	0	2	3	22	13	62				5·03	+2·55	1·40	12	19	0	2	0
Cardston	49	12	113	18						46·9	—	7	83·0	4	22·0	7	21·0																		4·42	—	0·98	10	21	0	0	0
Didsbury	51	40	114	8	3300					48·7	—	9	82·0	5	26·6	1-2	26·3					3	1	8	3	4	2	1	4	2	31				3·20	—	0·68	10	21	0	0	0
a Dunvegan	55	56	118	35	1305																																					
Edmonton	53	33	113	30	2158	29·81	30·28	29·12	1·16	51·1	− 0·1	29	83·0	5	24·0	24	28·3				8	14	4	7	4	10	5	10	6	2	62				1·95	+0·19	0·69	9	22	0	0	0
Eckville	52	23	114	22						43·1	—	4	79·0	6	20·2	21	27·5																		1·02	—	0·35	1	27	0	0	0
Endiang	51	58	112	6	2795					47·0	—	1	86·0	5	23·2	6	25·9																		2·46	—	1·13	6	25	0	0	0
Fort Vermilion	58	27	116	3						50·1	—	6	80·3	16	22·0	23	26·8																		0·73	-	0·29	4	27	0	0	0
Gleichen	50	59	112	54	2952					48·2	− 1·0	13	84·0	5	27·0	2-7	25·7																		3·40	—	0·85	5	26	0	0	0
Gilt Edge	52	59	110	13						—	—	2	—	—	24·0	2	—																		—	—	—	—		0	0	0
Hillsdown	52	14	113	29	2806					49·1	—	7	81·0	5	26·0	22	25·6					0	4	0	20	2	12	0	22	2	62				2·15	—	0·65	8	23	2	0	0
High River	50	35	113	53	3394					45·9	—	8	82·0	6	23·5	1-2	21·8																		3·52	—	1·25	10	21	0	0	0
Harmattan	51	45	114	23	3500																																					
Halkirk (Emsburg)	52	17	112	10						47·3	—	2	85·0	5	23·0	2	24·4					1	8	2	11	4	15	3	15	0	62				2·25	—	0·83	9	22	1	2	0
Lethbridge	49	42	112	51	2961					50·4	— 0·6	10	90·8	6	26·5	1	22·8																		2·32	—	0·59	13	18	0	0	0
Lethbridge (Exp. Farm)	49	43	112	51						48·9	—	4	87·6	5	25·2	1	21·8																		1·90	—	0·30	13	18	0	0	0
Lacombe	52	58	113	44	2783					47·2	—	4	83·1	5	22·1	7	30·3																		1·51	—	0·45	10	21	0	0	0
Lawrence	50	16	113	26																																						
Lunnford	54	33	114	19						46·5	—	2	77·0	5	19·5	24	29·9																									
Loveland	52	30	111	59						49·8	—	2	93·0	5	24·0	21	28·3					1	8	4	11	5	9	4	7	0	19				1·61	—	0·70	7	24	0	0	0
Medicine Hat	50	1	110	37	2161	29·81	30·12	29·22	0·90	54·5	+ 0·2	27	99·0	5	30·0	1	26·7				8	11	6	3	1	5	8	13	7	8	62				1·65	—	0·69	5	26	0	0	0
Macleod	49	44	113	24	3128					47·5	− 3·6	15	88·0	6	28·0	1	19·6																		1·84	+0·05	0·61	10	21	0	0	0
Moose (Tyrol)	51	15	110	39																															2·76	+1·22	0·59	11	20	0	0	0
Peace River Crossing	56	15	117	15						55·8	—	4	82·0	15	32·0	23-24	23·1																									0
Pembina	54	12	114	0						46·9	—	4	76·0	5 6	19·0	7	30·4					2	5	4	9	9	3	17	13	0	62				1·29	—	0·61	3	28	1	0	0
Pakan (Victoria)	54	0	112	34						48·1	—	7	80·0	5	17·0	24	28·0					5	7	10	0	9	7	13	9	2	62				1·02	—	0·38	5	26	0	0	0
Pincher Creek	49	0	114	1	3750																														0·91	—	0·21	9	22	0	0	2
Red Deer	52	16	113	49						47·2	—	7	81·0	5	25·0	22	26·1					4	0	0	2	4	6	5	9	0	30				2·10	—	0·58	8	23	12	0	0
Spirit River	55	40	118	47						49·1	—	2	77·0	15	23·0	10	20·3																		0·50	—	0·29	1	27	0	0	0
Sundial	50	6	112	34						50·4	—	1	90·0	5	26·0	1	22·4																		1·81	—	0·74	11	0	0	0	0
Threehills Creek	51	30	113	11						48·0	—	9	84·0	5	23·5	1	26·1																		2·67	—	0·80	13	18	4	0	0
Wetaskiwin	52	58	113	23	2180					49·0	—	9	84·0	6	26·0	24	23·3																		3·35	—	1·95	7	24	0	1	0
Waitefield	53	29	111	38	2000					48·7	—	6	87·0	5	24·9	24	26·0					7	6	14	12	3	5	18	6	22	93				2·39	—	0·72	15	16	3	3	0
SASKATCHEWAN—																																										
Battleford	52	41	108	20	1620	29·87	30·26	29·16	1·10	50·3	− 1·2	21	91·0	5	24·0	1	23·6																		2·60	+0·91	0·64	8	23	0	0	0
Broadview	50	23	102	33	1960					49·7	—	7	91·0	6	12·0	1	31·0					1	5	4	2	0	0	1	14	11	31				2·77	—	2·50	7	21	0	0	0
Brownlee	50	45	106	0						50·0	—	1	87·0	5	24·8	2	26·3					3	5	4	1	6	3	3	5	1	31				3·57	—	1·18	8	23	0	0	0
Chaplin	50	26	106	39	2202					48·7	− 3·6	25	91·0	5	16·0	1	25·3					3	8	1	3	0	6	6	10	0	31				3·59	+1·45	0·89	14	17	1	2	0
Cannington Manor	49	43	102	2	2061					48·7	− 2·5	14	83·0	5	15·0	1	21·6																		2·79	—	0·81	10	21	1	4	0
Crescent Lake	50	59	102	25	1658					47·6	—	6	87·2	6	16·3	2	26·9					3	7	1	0	10	2	6	2	0	31				3·56	—	0·65	14	17	3	4	1
Cumberland House	53	56	102	16						48·2	—	1	74·0	10	28·0	5	21·8																		—	—	—			0	0	0
Duck Lake	52	51	106	20																																						
Estevan	49	12	103	4	1858					52·2	—	6	85·0	5	17·0	1	21·6					6	3	6	5	5	1	2	1	2	31				2·40	—	0·61	5	26	0	0	1
East End	49	31	108	49																																						
Foxleigh	50	37	104	29																																						
File Hills	51	4	103	31						—	—	1	85·0	5	16·0	2	—																		2·75	—	1·00	5	26	0	0	0
Grenfell (Brownhill)	50	23	102	53	1957					49·7	+ 0·3	12	89·0	5	10·0	1	27·6					3	19	5	7	6	6	5	11	0	62				3·01	+1·07	0·81	10	21	1	1	0
Glenbryan (Larchmount.)	49	54	107	27						47·0	—	1	89·0	6	13·0	1	26·8					3	12	8	7	1	8	16	7	0	62				2·34	—	0·74	11	20	0	3	1
Humboldt	52	12	105	9						47·9	—	5	87·0	6	20·0	1	24·6																		3·14	—	2·00	5	26	0	0	0
Hubbard (Drumague)	51	5	103	24																																						
Indian Head	50	28	103	40	1921					50·2	+ 0·3	21	90·0	5	15·0	1	24·4					6	16	7	16	11	9	7	18	3	93				3·77	+1·79	0·77	8	23	0	2	0
Kamsack	51	30	101	52																																						
Lloydminster	53	18	110	0						47·4	—	8	88·0	6	21·4	1	21·6																		1·02	—	0·27	8	23	0	0	0
Lanigan	51	51	105	2																																						
Luseland	52	5	109	24						47·3	—	1	99·0	5	11·5	2	27·3																		1·99	—	1·37	9	22	0	1	0
Moose Jaw	50	21	105	35	1759					50·8	— 0·9	15	90·0	5	19·0	2	26·6																		2·29	+0·10	0·84	7	24	0	1	0
Moosomin	50	0	101	37	1884					49·6	+ 0·7	10	86·0	5	17·0	2	26·2					1	1	11	0	4	4	1	6	0	31				2·72	+0·86	0·55	11	20	0	0	0
Muenster (St. Pete 's Monastery)	52	0	105	0	1870					48·7	—	5	84·0	5	20·0	2	27·0					0	5	3	7	0	10	1	5	0	31				0·92	—	0·50	4	27	1	1	0
Melfort	52	47	104	30						48·4	—	2	84·5	5	17·0	1	25·6																		1·60	—	0·49	10	21	2	0	0
Maple Creek	49	55	109	28																																						
Orion Lake	53	52	109	50						51·2	—	5	86·0	6	28·0	20-25	28·8					3	6	2	6	2	1	6	2	0	28				—	—		—		0	0	0
Oliver	51	46	108	10						49·8	—	2	91·0	5	18·0	2	26·4																		1·19	—	0·46	5	26	0	0	0
Pense (Gatesgarth)	50	20	105	0	187[illegible]																																					
Prince Albert	53	10	106	0	1432					46·4	3·9	15	82·0	31	12·0	2	30·0					5	1	2	4	1	0	7	8	3	31				3·11	+1·01	1·62	9	22	0	0	0
Prince (Meota)	51	0	108	20	1700					50·0	—	4	90·0	5	17·0	1	23·6																		2·02	—	0·75	10	21	0	0	1
Qu'Appelle	50	30	103	47	2115																																					

PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA, MAY, 1911.

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

STATION.	Latitude N.	Longitude W.	Elevation above sea level, in feet.	Pressure. Mean reduced.	Highest.	Lowest.	Range.	Temperature. Mean.	Difference from average.	Years observ'n	Highest.	Date.	Lowest.	Date.	Mean daily range.	Mean temperature of dewpoint.	Mean relative humidity.	Mean amount of cloud.	No. of days completely clouded.	Direction of wind from N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.	Total number of observations.	Velocity of wind. Mean miles per hour.	Highest day's velocity.	Date and direction from.	Precipitation. Amount.	Difference from average.	Heaviest fall in month.	Days with ·01 or more	No. of fair days	[illegible]	[illegible]	[illegible]
SASKATCHEWAN—*Con.*	° ′	° ′		in.	in.	in.	in.																																	
Regina	50 27	104 37	1885					49·3	1·0	28	88·0	5	15·0	2	25·5																		3·65	−1·63	2·25	8	23	0	0	0
Rathmullen	51 20	108 57						49·0		2	90·5	6	19·3	2	21·7																		1·22	—	0·52	6	25	0	0	0
Rosthern	52 10	106 20	1657					49·7		1	82·2	6	23·7	1	19·6																		2·38	—	0·72	6	25	0	0	0
Swift Current	50 20	107 45	2139	29·89	30·23	28·21	2·02	50·5	0·2	21	89·0	5	25·0	2	23·1		66																1·68	0·11	0·26	7	24	1	2	0
Saskatoon	52 15	106 30	1571					48·1	0·7	15	88·5	6	22·7	2	21·5																		2·10	0·81	1·29	7	24	0	0	0
Scott (Hearts Hill)	51 59	109 30						47·1	−	1	90·2	5	19·2	2	29·6																		2·20	—	0·96	7	24	0	0	0
Stanley Mission																																								
The Pas	53 49	101 15	860	29·90	30·36	29·11	1·25	48·2		1	83·2	5	22·0	1	21·5		78																1·18		0·30	6	25	0	0	0
Waseca	53 6	109 29						49·0		1	89·0	5	20·0	1	21·2					0	3	4	8	0	4	11	1	0	31				2·22	—	0·75	6	25	0	0	0
Yorkton	51 11	102 29						49·2	—	3	87·0	6	17·0	1	26·8																		2·47		0·83	7	24		0	0
Yarbo (Fairfield)	50 39	102 4						48·3	—	4	84·0	7	12·0	2	26·3					6	5	2	4	5	2	2	3	2	31				1·04		1·14	10	21	1	3	0
MANITOBA—																																								
Almasippi	49 14	98 20						52·8		9	89·0	17	15·0	1	28·5																		6·19	—	2·50	12	19	0	7	0
a Aweme (St. Alban's)	49 42	99 33	1180	28·68	29·03	28·13	0·90	51·3	+2·8	25	91·5	17	14·0	1	30·7																		3·92	+2·13	1·36	12	19	1	1	1
Brandon	49 51	99 57	1176					52·5	+3·5	21	90·0	17	13·0	2	26·9			5	1	3	25	8	8	25	18	6	18	1	93	1	111	26 NE	2·68	+1·38	1·13	9	22	0	0	0
Berens River	52 18	97 23	710					47·4		5	81·0	19	1·0	1	19·4																		3·56		0·80	8	23	0	2	0
Birtle	50 25	101 1	1703					50·0		7	81·0	6	17·0	2	22·1																		5·03		1·82	10	21	0	0	0
Carberry	49 52	99 20	1258							6																							4·01		2·00	11	20	0	3	0
Carman	49 31	98 0	872					53·1	—	6	87·0	18	20·0	1	21·1																		1·88	—	1·65	10	21	0	0	0
Cypress River	49 33	99 3	1232					50·7	—	6	86·0	18	11·0	1	26·1																		3·90		1·90	11	20	0	0	0
Dauphin	51 8	100 2	957							5	87·0	6																					4·89		1·35	11	20	0	0	0
Hillview	49 55	100 33	1100					51·8	−2·6	24	90·0	17	14·0	1	26·0			4	5	11	11	6	7	16	12	8	15	4	93				3·73	−1·88	0·90	9	22	1	1	0
Minnedosa	50 15	99 50	1020	29·85	30·31	29·20	1·11	51·2	+1·5	27	89·5	17	13·4	2	26·2			5	5	5	10	7	6	1	0	5	9	19	62				2·87	+1·02	0·68	11	20	1	2	0
Morden	49 11	98 6	978					53·4		6	89·0	18	19·0	1	25·2																		3·35	—	1·03	10	21	0	3	0
Moose Horn Bay (Aitkensville)	51 15	98 33						49·6		1	93·7	18	17·9	3	22·6					15	6	8	6	11	4	4	2	6	62				4·26	—	1·21	14	17	1	1	0
Ninga*	49 14	99 51	1619							1	87·1	17																					2·89		0·67	9	22	0	5	0
Oakbank	49 57	96 42	800					53·3	+1·8	16	85·3	17	21·0	1	22·8																		6·24	+1·80	2·36	8	23	0	5	0
Pipestone	49 34	100 58	1400					51·6		9	87·0	6	19·0	1	25·6																		2·32		1·17	8	23	0	1	0
Portage la Prairie	49 57	98 17	830					53·1	+1·5	21	85·0	17	19·0	1	22·0																		1·29	−2·25	0·20	7	24	0	0	0
Portage la Prairie (2)	49 56	98 17						51·6		6	84·0	6	19·7	2	20·6																		4·17		1·50	10	21	0	0	0
Pierson	49 11	101 5	1531					51·1		7	84·0	7	10·0	1	27·0																		2·71		1·15	9	22	0	0	0
Stony Mountain	50 10	97 11	803					52·6	+1·2	31	85·0	18	17·0	2	28·7					7	11	7	4	8	4	11	8	0	60				1·06	−2·65	0·46	5	26	0	4	0
Swan River	52 6	101 15	1112					50·9	—	3	90·0	6	20·0	1	25·8																		2·96		0·66	10	21	0	0	0
Treherne	49 36	98 40	1212					53·1	+1·5	16	86·0	17	17·0	2	21·7																		6·58	—	1·53	11	20	1	8	0
Virden	49 51	100 55	1444					55·4		7	87·0	6	15·0	12	29·6																		3·21	—	0·95	6	25	0	0	0
Winnipeg	49 53	97 7	760	29·89	30·37	29·18	1·19	55·1	4·0	37	86·0	17	19·3	2	25·4			5	1	15	4	8	5	10	2	8	9	1	62				6·38	4·37	2·80	9	22	4	4	0
ONTARIO—																																								
Alton	43 51	80 5	1250																																					
Aurora	43 57	79 21	886					60·5		3	92·5	28	25·0	3	25·5																		2·92	+0·12	0·75	8	23	0	5	0
Agincourt	43 47	79 16	590					60·4	+5·7	17	93·5	28	26·4	3	26·0			4	4	1	4	23	7	1	6	31	20	0	93				1·85	−1·71	0·82	7	24	2	6	0
Barrie	44 23	79 44	830					58·9	+7·9	35	90·0	28	21·6	3	23·5			1	0	1	4	9	1	10	8	4	31	22	93	1	IV	12 SW	1·50	−0·97	0·36	12	19	0	8	0
Beatrice	45 8	79 20	800					57·6	+6·0	36	88·0	22	21·0	3	25·3			4	5	6	4	1	7	13	7	4	13	11	93	1	III	12 SW	1·46	−1·61	0·46	7	24	0	5	4
Bruce Mines	46 18	83 55	595					53·9	+3·2	13	82·0	20	12·0	3	21·4																		4·30	+2·10	1·71	10	21	0	6	0
Birnam	43 2	81 50	600					60·7	5·7	26	89·7	27	27·4	3	22·4					11	3	4	11	16	2	4	7	1	62				2·38	−0·47	0·71	8	23	0	7	1
Brantford	43 10	80 21	750					62·0	+7·1	31	95·0	28	27·0	2, 3	26·9																		0·90	−1·30	0·5	6	25	0	4	0
Bloomfield	43 59	77 24	260					59·3	+5·5	17	90·0	23	23·0	3	23·9																		2·21	—	1·77	6	25	0	1	0
Bancroft	45 1	77 50						58·8	+7·4	20	92·0	22	21·0	2	30·2																		1·72	−1·30	1·00	4	27	0	1	0
Copper Cliff	46 30	80 59						56·8		1	88·5	19	20·0	2	24·7																		3·26	—	1·26	7	24	0	3	0
Clinton	43 32	81 37						59·2		8	89·0	23	18·0	3	23·7					8	0	2	8	17	4	8	15	0	62				2·15	—	0·61	10	21	0	6	0
Coldwater	44 38	79 40	600																																					
Cottam	42 7	82 45	646					61·2	+3·8	23	96·0	28	21·0	2	30·7					12	4	7	1	25	4	9	3	0	62				4·41	−2·23	0·75	8	23	0	0	0
Chatham	42 23	82 12	595					61·3	+5·1	23	96·0	28	28·0	3	28·8																		1·37	−2·16	0·53	4	27	0	0	0
Collingwood	44 31	80 2						63·8	+10·6	17	90·0	27	25·0	2	27·9																		3·2	+0·54	1·00	4	27	0	1	0
East Toronto	43 35	79 18						59·1	—	5	90·0	22	25·0	3	25·7																		1·21	—	0·35	7	24	0	6	0
Elora	43 41	80 24	1271					59·0	+6·6	11	92·0	22	23·0	3–4	27·1																		2·41	−0·30	0·63	11	20	0	0	0
Gravenhurst	44 51	79 20						57·1	+4·3	31	87·0	20	22·0	4	27·5					5	2	9	6	16	7	11	11	23	93	1·8	17	12 W	1·96	−1·21	0·38	7	24	0	3	0

ONTARIO—*Concluded.*																																										
Guelph	43	33	80	16	1050					61·4	+ 7·8	24	90·0	28	21·0	3	21·8																		1·70	−1·37	0·86	8	23	0	2	0
*a*Grimsby	43	13	79	36		29·64	29·98	29·10	0·88	61·2	—	2	97·0	29	29·0	3	26·6																		1·2	—	0·53	8	23	0	0	0
Haileybury	47	29	79	39	687	29·98	30·39	29·18	0·91	51·2	+ 5·0	17	90·0	19	19·7	2	23·0					10	3	3	2	4	16	3	10	11	62				2·01	1·09	0·59	10	21	1	1	0
Hamilton	43	16	79	51	303					62·8	+ 7·0	36	96·5	28	30·0	3	21·2																		1·7	−1·07	0·53	7	24	0	0	0
Haliburton	45	1	79	8	1050					59·2	+ 5·5	22	95·0	22	21·0	3	33·1																		1·55	−1·12	1·05	5	26	0	2	1
Huntsville	45	19	79	8						57.5	—	5	90·0	22	18·0	3	27·7																		—	—	—	—	—	0	0	0
Kenora	49	48	94	32	1102					48·0	— 1·0	12	71·0	10	21·0	1	19·8																		0·39	—	0·09	7	21	2	3	1
Kakabeka Falls	48	29	89	26	912					51·6	—	3	89·0	18	17·0	3	18·8																		2·51	—	0·57	12	19	1	7	0
Kingston	44	13	76	29	285	30·01	30·47	29·31	1·13	57·4	+ 4·7	36	81·8	22	28·5	3	19·2			6	4	1	7	2	4	3	37	5	3	0	62				3·63	+1·12	1·15	11	20	0	6	1
Kinmount	44	45	78	38	920					57·2	+ 4·2	12	91·5	22	21·0	2-4	30·4																		2·18	—	0·98	11	20	0	0	0
Lucknow	43	56	81	30	908					57·8	+ 4·9	25	87·5	22	21·0	3	21·0																		3·87	+0·82	1·32	12	19	0	7	2
Lake Talon	46	15	78	48						57·5	+ 4·7	16	88·5	20	23·0	3	25·7																		3·11	+0·06	0·68	8	23	1	4	0
London	42	59	81	13	808	30·02	30·42	29·34	1·08	62·4	+ 5·9	26	93·0	22	27·0	3	27·9					0	9	17	21	0	2	20	21	0	93				2·18	+ 0·5	0·37	8	23	0	4	0
Lakeside Home	43	40	79	21						54·1	—	7	85·0	28	30·0	3	21·2																							0	4	0
Lorne Park	43	32	79	37						61·1	—	3	95·0	21-28	29·0	3-5	29·7																		1·46	—	0·67	6	25	0	0	0
Lindsay	44	20	78	45	872					61·1	+ 7·3	31	93·6	28	21·0	3	27·2			1	0	11	1	2	4	10	20	16	19	10	93	1·8	4·7		2·6	−0·50	0·57	11	20	0	5	0
Oakefield	44	25	78	15	850					62·0	+ 7·5	28	88·0	29	25·0	3	9·3																		2·96	+0·36	1·26	7	24	0	2	0
*Midland	44	41	79	53	750					61·5	—	4	92·0	21-22	3[illegible]·0	2-3	—																		2·35	—	1·25	6	25	0	3	0
Madoc	44	30	77	29	575					61·7	—	6	92·0	28	26·0	3-1	25·7																		1·21	—	0·59	8	23	0	6	0
Montague	44	56	75	57						61·2	—	2	93·5	22	28·0	3	26·6																		1·80	—	0·77	5	26	2	4	0
Montreal River										55·1	—	1	91·0	28	13·0	4	28·0																		1·77	—	0·46	9	22	0	0	0
Matheson										52·7	—	1	93·5	27	7·0	4	29·4					6	5	0	3	10	8	11	13	6	62				0·20	—	0·72	13	18	1	3	1
*North Bruce	44	23	81	25						55·9	+ 3·8	23	89·0	22	29·0	2	—					0	0	5	3	30	11	25	19	0	93				3·29	+0·22	1·26	11	20	3	6	1
North Gower	45	8	75	43						—	–	1																							1·52	—	0·80	2	29	0	1	0
Owen Sound	44	31	80	55	597					58·2	+ 6·2	3	97·0	19	25·0	4	24·2					22	0	0	0	37	0	2	1	0	62				1.00	—	0·65	2	29	0	2	0
Orillia	44	37	79	21	775					61·0	—	9	92·0	28	22·0	3	26·7					1	3	2	7	7	5	0	6	0	31				1·33	—	0·19	5	26	0	3	1
Ottawa	45	26	75	42	291	29·97	30·43	29·34	1·09	61·6	+ 5·8	28	90·0	22	25·0	4	23·3					1	3	6	2	11	10	22	3	1	62				2·43	0·09	0·91	10	21	0	6	0
*Ottonabee	44	20	78	18	674					61·3	+ 5·4	16	91·0	22	27·0	3	—					0	0	9	0	7	35	30	12	0	93				1·69	− 1·17	0·83	5	2[illegible]	0	3	0
Port Arthur	48	27	89	12	644	29·96	30·31	29·21	1·13	50·8	+ 4·9	30	80·0	28	21·0	3	22·1			5	6	7	9	12	5	4	1	6	11	2	62				2·36	+0·19	0·37	12	19	1	4	2
Port Stanley	42	40	81	13	592	30·04	30·40	29·40	1·00	58·0	+ 5·0	35	86·2	22	28·0	3-5	20·3			5	7	1	3	17	6	0	8	8	13	[illegible]	62				1·78	−1·61	0·58	14	17	0	5	4
Port Dover	42	47	80	13	635					59·1	+ 6·1	36	85·5	28	25·4	4	19·2					0	1	2	5	4	9	4	6	0	31				1·78	−0·98	0·55	8	23	0	4	0
Port Burwell	42	39	80	55	592					58·4		8	86·5	22	27·0	3	19·3																		2·10	—	0·65	6	25	0	0	0
Parry Sound	45	19	80	0	635	30·02	30·45	29·39	1·06	58·0	+ 6·4	35	89·0	20	23·0	3	23·4			5	4	0	9	0	8	7	20	7	7	4	62				2·27	−0·78	0·73	11	20	0	6	1
Point Clark	44	5	81	44	595					—	—	39										12	3	6	5	22	6	5	3	0	62				2·15	0·12	1·00	4	27	0	2	0
Pelee Island	41	50	82	35	585					67·2	+ 9·9	37	99·0	19	38·5	7	14·1																		0·60	—2·16	0·30	3	28	0	0	0
Paris	43	12	80	25	840					62·9	+ 6·5	22	95·0	22	27·0	3	27·9																		1·50	1·06	0·51	6	25	0	3	0
Peterboro	44	17	78	19	722					60·9	+ 5·1	42	92·0	22-28	24·0	3	23·9																		2.17	0·19	1·01	9	22	0	6	0
Porcupine										52·2	—	1	95·0	27	15·2	1	26·6																		—	—	—			0	0	0
Providence Bay	45	40	82	14						—	—	1	79·0	22																					2·30	—	0·50	10	21	0	5	8
Ronville	45	15	78	57	1038					56·6	—	4	86·0	19-28	19·0	2	26·6																		2·50	—	0·76	9	22	0	2	0
Renfrew	45	26	76	39	416					61·7	+ 6·5	21	96.5	28	21·5	4	27·4																		2·79	+0·51	1·78	11	20	0	7	9
Stonecliffe (Rockliffe)	46	9	78	6	557	29·98	30·43	29·41	1·02	57·6	+ 5·5	33	93.0	28	20·0	3	28·0					1	1	7	1	1	0	16	2	33	62				2·81	+0·06	0·80	9	22	1	0	0
Southampton	44	30	81	21	656	30·03	30·45	29·31	1·11	56·4	+ 4·9	34	90·0	19	27·0	3	19·6			5	6	10	2	3	8	10	17	3	8	1	62				1·11	+1·57	1·40	11	20	0	7	2
*Sarnia	42	59	82	24	586					63·1	+ 7·3	17	90·0	27	31·0	2	—																		0·15	−2·91	0·15		30	0	0	0
Stratford	43	23	81	0	1191					60·8	+ 6·1	14	90·0	27-28	19·0	3	25·5																		2·10	−0·78	1·44	1	27	0	0	0
Stony Creek	43	13	79	45	292					60·2	+ 5·3	27	95·0	28	30·0	3	21·9			2	2	0	16	13	2	1	39	17	5	0	93	II	VI	2 W	0·77	−2·38	0·33	3	28	0	0	0
Schreiber	48	50	87	15						50·5	+ 2·7	13	70·1	19	17·5	1	21·9																		3·27	—	0·75	12	19	0	4	7
Shelburne	44	5	80	47																																						
Toronto	43	40	79	24	350	30·02	30·44	29·37	1·07	61·2	+ 7·6	70	90·8	28	28·5	3	21·5					5	1	23	0	3	10	12	6	2	62				2·01	0·81	0·61	8	23	1	5	2
Uxbridge	44	5	79	8	886					60·2	—	7	93·0	28	25·0	3	21·1																		1·73		0·36	11	20	0	0	0
Uplands	45	48	79	25						57·1	+ 6·1	24	90·0	20	18·0	3	30·6					6	0	3	1	13	1	28	0	10	62				1·70	1·16	0·51	7	21	0	3	
Ursa	44	54	78	15						57·7	—	4	82·0	28	22·0	2	21·2																		2·30	—	0·99	5	26	0	0	0
White River	48	35	85	16	1252	29·95	30·36	29·29	1·07	51·4	+ 5·6	21	89·0	27	12·0	3	26·3					8	6	4	3	5	4	13	2	17	62				3·01	+0·59	1·2	9	22	0	0	0
Woodstock	43	8	80	47	980	29·99	30·18	29·36	1·12	60·6	+ 7·0	36	89·0	22	25·0	3	26·9		64	6	7	3	8	1	11	7	31	13	13	1	93	8·3	22·0	11 SW	1·34	−1·47	0·46	8	23	0	0	0
Welland	42	59	79	17	577					61·3	+ 6·3	25	93·0	22	28·0	3	25·4																		1·38	−1·52	0·79	6	25	0	0	0
Windsor	42	20	83	4	625					63·9	+ 4·2	36	90·0	29	32·0	3	20·8																		2·13	−0·78	0·33	12	19	0	0	0
Wallaceburg	42	35	82	24						63·5	—	6	92·0	27	31·0	2	21·8																		3·01	—	1·80	8	23	0	0	0
QUEBEC—																																										
Abitibi	48	13	79	22						51·1	+ 3·8	15	85·0	19-27	16·0	4	21·9			6	5	15	8	11	5	14	5	28	7	0	93	III	V	29 W	1·33	−1·88	0·53	5	26	0	0	1
*Anticosti, E. Point	49	6	61	42	30					39·6	− 0·1	25	54.0	30	33·0	3	—					7	6	13	2	3	22	21	6	10	93				1·23	—	1·23	1	30	0	0	13
*Anticosti, W. Point	49	52	64	32	30					42·8	+ 1·5	29	61·0	20	30·0	3	—					4	9	15	3	26	2	13	21	0	93				2·43	−0·37	0·61	9	22	0	0	4
Brome	45	10	72	36	678					59·0	+ 5·6	30	90.0	31	25·0	4	21·1					11	1	2	0	16	5	53	1	1	93				1·54	−1·71	0·55	5	26	0	4	0
*Bicquet	48	25	68	53						44·1	+ 1·4	28	78·0	21	30·0	2	—					6	39	0	0	0	2	31	9	3	93				1·25	1·25	0·60	3	28	0	0	11
Clarke City	50	10	66	25																																						
*Cape Chatte	49	6	66	45						46·6	+ 2·4	29	69·0	21	33·0	3 4	—					4	1	21	0	1	11	26	1	28	93				0·85	−1·22	0·60	4	27	0	1	8
*Cape Magdalen	49	16	65	20	93					46·6	+ 2·7	29	72·0	19	30·0	4	—					6	2	5	3	11	8	10	27	21	93				3.02	+1·47	0·60	12	19	1	0	6
Chicoutimi	48	25	71	5	150					55·0	+ 5·6	33	91·7	21	27·0	4	24·1			7	5	0	4	0	35	0	41	0	13	0	93	IV	IX	11 SE	1·76	−1·28	0·39	12	19	1	5	1
Chicoutimi (2)										51·6	—	1	93·0	20	27·0	4-5	24·1																		—	—			—	0	5	1
Cap Rouge										—	—	1	91·0	22	30·2	13	—																		1·50	—	0·97	6	21	0	0	0
Disraeli	45	55	71	21						58·8	—	4	99·5	22	26·5	11	36·1																		2·45	—	0·82	7	21	0	1	0
Father Point	48	31	68	19	20	29·91	30·40	29·24	1·16	48·7	+ 4·1	33	77·7	21	32·0	3-4	16·5			7	1	1	9	5	0	1	15	19	4	5	62				2·25	−0·71	0·72	11	20	0	1	1
Lake Edward	47	39	72	15	1333					55·2	—	1	87·8	22	19·5	4	24·8																		2·73	—	0·82	6	25	0	4	0
Montreal	45	30	73	35	187	29·96	30·45	29·36	1·09	62·7	+ 7·[illegible]	36	88·7	20-21	27·7	4	18·7			4	2	8	3	6	4	7	14	19	1	0	62				2·39	−0·40	1·27	11	20	1	7	0

PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA, MAY, 1911.

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

STATION.	Latitude N.	Longitude W.	Elevation above sea level, in feet.	Pressure: Mean reduced.	Pressure: Highest.	Pressure: Lowest.	Pressure: Range.	Temperature: Mean.	Temperature: Difference from average.	Temperature: Years observ'tn	Temperature: Highest.	Temperature: Date.	Temperature: Lowest.	Temperature: Date.	Temperature: Mean daily range.	Mean temperature of dewpoint.	Mean relative humidity.	Mean amount of cloud.	No. of days completely clouded.	Wind from N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.	Total number of observations.	Velocity of wind: Mean miles per hour.	Highest day's velocity.	Date and direction from.	Precipitation: Amount.	Difference from average.	Heaviest fall in month.	Days with .01 or more.	No. of fair days.	No. of auroras.	No. of thunderstorms.	No. of fogs.
QUEBEC.—*Concluded.*																																								
Perkin's Mills.																																								
Quebec	46 48	71 13	296	29.91	30.13	29.32	1.11	58.0	+6.5	36	91.1	21	23.6	4	23.2	..	..	5	5	1	20	1	2	5	15	10	7	1	62	..			2.06	-1.00	0.57	9	22	2	3	0
*Roberval	48 31	72 13	352	....	....	....	....	.....								....	....	....	....	....							....	....	....	....	....	....								
St. Anne de Bellevue	45 27	73 59	..	....				61.7	—	5	93.5	21	28.0	4	23.2	..		....															2.45	—	1.44	12	19	0	0	0
Shawinigan Falls	46 34	72 43	..		....			55.6	—	8	93.0	28	19.0	4	26.8			....															1.26	—	0.61	5	26	0	1	0
Sherbrooke	45 32	72 5	620					61.0	—	8	92.0	22	26.9	4	25.7			....											...				0.75	—	0.50	6	25	1	3	3
Shawbridge	45 51	74 3																																						
NEW BRUNSWICK—																																								
Chatham	47 3	65 29	21	29.97	30.45	29.37	1.08	55.1	+5.0	36	82.5	21	27.0	5	26.2			5	3	1	5	18	2	0	11	17	5	0	62				2.63	-0.19	1.25	6	25	0	3	0
Dalhousie	48 4	66 22	30					52.0		35	86.0	21	23.0	11	22.7					0	0	11	3	0		15	1	1	31				1.50	—	0.5	5	26	0	0	[illegible]
Fredericton	45 57	66 36	164	29.90	30.49	29.39	1.10	56.6	+5.1	38	89.5	21	21.0	[illegible]	29.1		60	5	4	2	8	11	6	11	20	13	22	0	93	9.5	17.7	3 N.W.	0.68	-2.19	0.36	4	27	0	2	0
Grand Manan	44 47	66 46	49	30.0[illegible]	30.38	29.41	0.96	52.[illegible]	+1.7	26	96.0	17	31.0	4	19.0					2	1	4	[illegible]	6	14	15	8	6	62				0.17	-3.82	0.11	6	25	0	1	7
Moncton	46 9	64 45	50		....		...	55.2	+5.5	14	85.0	21 22	27.0	4	26.8																		0.45	-1.91	0.3	2	29	0	2	0
*Point Lepreaux	45 4	66 28	30					46.6	+1.8	33	62.0	16	32.0	4				1	3	5	1	1	3	4	28	15	8	0	81	11	18	3 N.W.	0.16	-3.92	0.16	1	30	0	0	10
St. John	45 17	66 4	70	30.01	30.37	29.45	0.92	50.9	+2.4	38	72.[illegible]	22	31.0	4	15.7			5	3	3	3	5	10	30	1	3	5	2	62				0.36	-3.57	0.2[illegible]	7	21	1	3	7
St. Stephen	45 11	67 16	35		....	..	..	56.1	+7.3	11	82.0	22	20.0	5	31.7																		0.22	-2.65	0.22	1	30	0	3	0
Sussex	45 38	65 38	69			...	...	55.8	+6.7	14	90.0	22	25.0	5	27.4	..	..	....	....	0	2	0	0	0	10	2	2	15	31	....			0.51		0.25	3	28	0	2	0
NOVA SCOTIA—																																								
Antigonish	45 38	61 59	50					52.6		1	82.0	9	12.0	16	[illegible]																		—	—				0	0	0
Halifax	44 39	63 36	88	30.03	30.37	29.18	0.89	53.0	+3.7	36	88.7	22	29.6	5	23.7					1	7	1	5	10	8	21	9	0	62	....			1.39	-2.28	0.43	8	23	0	1	2
Port Hastings	45 39	61 22	15					53.9	+6.0	20	88.0	2	23.0	1	21.6					0	5	0	6	3	12	0	5	0	31				1.70	-1.90	0.75	4	27	0	1	[illegible]
Parrsboro'	45 23	64 19	40					52.0	+3.7	15	78.0	22	26.0	16	26.2																		—	—	—	—		0		0
Sydney	46 10	60 10	35	30.01	30.41	29.51	0.90	50.0	+3.9	37	75.0	27	29.0	19	22.1			7	11	8	5	2	1	3	15	17	8	3	62				1.08	-2.13	0.32	7	24	0	0	0
*Sable Island, E. Point	43 58	59 46	25					47.7	+4.6	29	61.0	29	37.0	3						5	5	0	3	4	55	0	21	0	93				3.96	+0.52	2.0[illegible]	3	8	0	[illegible]	12
Truro	45 22	63 18	77			....		52.7	+3.4	36	84.3	22	23.6	17	27.5			5	3	6	9	2	3	15	33	21	4	0	73				1.32	-1.71	0.49	6	25	0	[illegible]	3
Windsor	44 59	64 6	90		....	....		55.6	—	9	85.0	22 29	26.5	5	24.6																		1.26	—	0.8	6	25	0	1	0
*Whitehead	45 15	61 8	20					44.5	-0.3	28	55.0	27 31	35.0	4	16																		0.65	-1.12	0.65	1	30	0	0	12
a Wolfville	45 7	64 24	..	29.94	30.30	29.40	0.90	55.6	+5.4	12	85.5	22	28.6	5	25.6					3	0	5	4	2	13	21	11	7	62	....			0.99	-1.76	0.78	5	26	0	2	0
Yarmouth	43 50	66 2	65	30.05	30.39	29.52	0.87	50.5	+2.3	30	71.8	23	28.4	5	16.1					5	1	4	1	6	21	6	7	5	62				1.50	-2.16	0.6	8	23	0	1	9
P. E. ISLAND—																																								
Charlottetown	46 14	63 10	38	30.00	30.36	29.45	0.91	52.3	+1.0	35	80.5	22	29.5	11	21.0	...			..	1	8	4	2	12	16	15	4	0	62		...	...	0.40	-2.36	0.15	7	21	0	2	0
Charlottetown (2)	46 14	63 7	75	....	....			53.2	—	1	83.0	22	28.0	17	23.6																		0.32	—	0.13	6	25	0	1	0
Hamilton	46 25	63 18		..	....	....	....	51.1	+1.3	13	80.0	22 23	30.0	10 11	20.3		..		..	1	5	0	0	0	19	6	0	0	31				0.32	—	0.21	2	29	0	0	0
NEWFOUNDLAND—																																								
*Amour Point	51 28	56 51			.....			35.2	+0.2	27	42.0	11 29	28.0	16		...		....	..	8	1	21	0	0	0	51	9	0	93				0.52		0.40	2	29	0	0	3
Burin	47 0	55 10	27		...																																			
*Cape Norman	51 38	55 52						31.5		1.1	28 40.0	21	6.0	16			..	....		3	18	11	7	1	0	28	25	0	93				1.75	+0.15	0.75	8	23	1	0	2
Fogo	49 43	54 17	30	29.94	30.12	29.42	1.00	41.2		1	62.0	9	28.0	11 17	13.7		...	...		5	6	6	1	1	9	24	3	3	62				3.86	-0.13	0.61	17	14	0	0	2
*Point Rich	50 42	57 25	35					36.1	2.6	27	49.0	23	30.0	3						9	3	19	3	0	22	30	1	0	93				0.50	2.40	0.5	1	30	0	0	8
Port aux Basque	47 35	59 10	27	29.97	30.37	29.44	0.93	40.5	—	2	60.5	9	29.5	6	11.1	..	...		...	10	1	26	1	2	1	13	8	0	62				3.80	—	0.97	16	15	0	0	6
St. John's	47 34	52 42	125	29.89	30.26	29.22	1.04	45.4	+2.4	38	70.0	21	29.0	29	18.9					6	8	2	0	11	20	10	5	0	62	...			2.87	-0.32	0.85	12	19	0	0	3
BERMUDA—																																								
Prospect	32 17	64 30	151	30.16	30.35	29.95	0.36	69.1	+0.6	20	79.8	21	58.1	2	11.8	..		..		5	4	13	8	19	3	5	5	0	62	..		..	2.82	-1.57	1.48	7	21	0	1	0

PRECIPITATION AT STATIONS REPORTING RAIN, SNOW, WEATHER, &c., DURING MAY, 1911.

STATIONS.	TEMPERATURE.					PRECIPITATION.				REMARKS.
	Amount in inches	No. of Days 90 or over	No. of Fair Days	Heaviest Fall in Month	Date	Amount in inches	No. of Days.	Heaviest Fall in Month	Date.	
BRITISH COLUMBIA—										
Alkali Lake	1·69	1	30	1·01	12					
Annis	1·17	13	18	0·24	16					Thunder on 5.
Beaver Lake	2·25	8	23	0·45	4					
Coquitlam	5·65	10	21	1·69	8					
Denman's Island	4·76	10	21	2·20	4					
Ferguson	2·09	11	17	0·42	16					
Goldstream Lake	2·40	15	16	0·59	12					
Hydraulic	1·19	8	23	0·70	5					
Hornby Island	3·68	10	21	1·02	5					
Jordan River	4·17	14	17	1·60	4					
Jordan River (Bear Creek)	5·26	12	19	1·30	5					
LittleQualicum (French Creek, V.I.)	2·75	9	22	0·96	5					
Monte Creek	0·15	5	26	0·06	3					
Naas Harbour	2·71	9	22	0·80	10					
Skidegate	1·24	7	24	0·62	11					
Shawnigan Lake	2·38	11	17	0·47	4					
ALBERTA—										
Bardo	1·42	4	26	0·46	18	0·3	1	0·3	10	
Bismark	0·58	3	28	0·26	16	"	1	"	21	
Bruederheim	1·81	9	21	0·86	17	"	1	"	25	Thunder on 5.
Bittern Lake	1·35	11	20	0·44	18					
Bantry										
Brooks	2·27	8	22	0·93	23	"	1	"	23	
Conjuring Creek										
Coutts										
Campsie	1·47	8	23	0·44						
Caldwell	4.14	10	19	1·29	16	8·5	2	5·0	22	
Dorenleo	0·99	5	26	0·42	24					
Dunstable	1·89	11	20	0·80	18					Thunder on 29.
Elkwater										
Grassy Lake	2·50	2	29	1·60	19					
Jumping Pound	2·72	4	26	1·90	11	10·0	1	10·0	22	
Lacombe	1·43	4	27	1·05	17					Thunder on 5.
Langdon										
Loch Sloy	2·26	9	20	0·89	16	10·5	2	7·0	23	Thunder on 19.
Lyndon	0·59	3	28	0·24	13					
Lineham	2·00	1	29	2·00	14	1·8	1	1·8	22	
Macleod	3·74	14	17	0·66	13					
Minda (Many Berries Ranch)										
Mayerоft	2·63	5	25	1·17	11	8·2	1	8·2	22	
Mayton										
Okotoks	2·03	6	24	0·62	14	8·3	1	8·3	23	
Playle Creek	3·27	10		0·85	13	"	3	"	22-25-27	
Ponoka	1·24	4	27	0·82	17					
Pekiskn	4·22	10	19	1·27	15	14·0	2	8·0	23	
Sion	2·19	14	17	0·61	17					Aurora on 1, 2, 7, 21, 24, 26, 27, 28, 29, 30.
Seven Persons	1·64	6	25	0·40	13					
Tilley										
SASKATCHEWAN—										
Carmichael	0·01	1	29	0·01	28	3·5	1	3·5	1	
Coulee										
Elm How										
Forks Swift Current (Gull Lake)	1·64	11	20	0·39	11					Thunder on 14, 28.
Gull Lake	0·76	5	26	0·23	23					
Hanley										
Kindersley	8·00	7	21	3·50	23					Thunder on 16.
Kelvinhurst	1·47	7	24	0·40	16					
Last Mountain										
Maple Creek	1·20	11	20	0·31	23					
Willow Creek	0·32	5	26	0·09	13					
MANITOBA—										
Cartwright	3·12	11	20	1·05	11					Aurora on 11. Thunder on 9, 13, 17, 18, 24.
Deloraine	5·97	10	21	3·00	11					Thunder on 9.
Gretna	5·46	7	23	1·78	11	4·0	1	4·0	11	Thunder on 17, 24.
Norquay	2·31	9	21	1·65	25	14·0	1	14·0	11	
Rapid City	3·23	8	23	1·35	27					
Rosebank	4·63	8	22	1·75	11	"	1	"	11	
ONTARIO—										
Arden										
Deer Park	2·03	8	22	0·83	1	0·3	1	0·3	1	Thunder on 1, 18, 23, 31.
Dutton	0·40	2	29	0·30	1					Thunder on 1, 10, 18, 19, 22, 23, 28.
Emsdale	2·43	11	20	0·66	2					
Goderich										
Georgetown	1·87	8	22	0·76	1	0·1	1	0·1	3	Aurora on 1. Thunder on 1, 11, 17, 18, 20, 22, 31,
Grantham	1·37	7	23	0·51	23	"	1	"	3	
Grand Valley	2·50	10	20	0·61	17	1·0	1	1·0	2	
MacCue	1·29	7	24	0·39	1					
Orangeville	1·64	7	23	0·54	13	0·8	1	0·8	3	
Princeton	2·30	5	26	1·06	5					
Sydenham	3·00	4	27	1·15	1					
Strathroy	2·54	5	25	1·23	31	1·0	1	1·0	2	
Watford	2·23	7	24	0·78	1					
Westport	1·56	5	25	0·30	18	0·3	1	0·3	3	Thunder on 18, 22, 23, 24, 27, 28, 31.
Wooler	1·43	5	26	0·46	31					Thunder on 18, 19, 28.
Westminster	1·46	4	27	0.59	23					Thunder on 1, 11, 22, 31.
Wiarton										Thunder on 1, 11, 17, 20, 31.
Wesley	2·22	10	20	0·62	17	0·5	1	0·5	3	Fog on 1.
QUEBEC—										
Timiskaming										
Quinze Dam										Thunder on 23.
Perkins Mills	1·92	9	22	3·25	23					
NEW BRUNSWICK—										
Point Escuminac	0·20	3	28	0·09	22					Aurora on 14, Fog on 22, 23, 25, 28.

MEAN PROPORTION OF BRIGHT SUNSHINE REGISTERED IN EACH HOUR OF THE DAY IN THE MONTH OF MAY, 1911.

STATIONS.	Hours Ending																	
	5 a. m.	6 a. m.	7 a. m.	8 a. m.	9 a. m.	10 a. m.	11 a. m.	Noon.	1 p. m.	2 p. m.	3 p. m.	4 p. m.	5 p. m.	6 p. m.	7 p. m.	8 p. m.		
Victoria		·07	·25	·36	·42	·49	·51	·60	·62	·62	·54	·57	·46	·40	·14	...	...	...
Nanaimo		·03	·24	·44	·49	·46	·53	·51	·53	·52	·47	·48	·37	·37	·30	·02	.....	.....
Vancouver		·19	·31	·40	·35	·41	·51	·49	·43	·49	·46	·41	·47	·43	·23	...	...	.....
Agassiz			·21	·26	·31	·35	·37	·42	·49	·47	·49	·39	·49	·27	·12	...	...	...
Tranquille		·24	·43	·49	·61	·64	·63	·64	·63	·56	·56	·55	·43	·37	·34	·10	...	...
Summerland		·26	·48	·49	·58	·59	·57	·63	·62	·51	·43	·47	·55	·45	·23	.....	.....	...
Kamloops	·04	·23	·46	·59	·62	·67	·64	·66	·65	·67	·66	·57	·47	·40	·30	·03	.....	.....
Edmonton	·01	·30	·51	·54	·57	·65	·65	·67	·54	·54	·52	·47	·46	·48	·33	·07	.....	...
Lethbridge	·02	·20	·38	·51	·60	·65	·58	·50	·54	·5	·50	·38	·37	·31	·25	·13	·01	.....
Lacombe	·11	·34	·51	·60	·56	·57	·54	·62	·57	·59	·52	·53	·41	·47	·37	·12	...	.....
Medicine Hat	·04	·21	·40	·48	·62	·70	·63	·66	·64	·63	·62	·58	·57	·47	·34	·07	.....	...
Fort Vermilion		·08	·30	·51	·59	·64	·77	·77	·74	·79	·71	·73	·59	·29	·04	...	...	...
Battleford		·03	·20	·34	·37	·43	·34	·35	·36	·41	·37	·31	·29	·22	·06	...	...	...
Indian Head		·22	·49	·44	·54	·59	·60	·62	·62	·60	·56	·52	·48	·43	·34	·08	...	.....
Moosejaw	·13	·44	·54	·55	·58	·59	·59	·62	·60	·61	·62	·56	·50	·49	·41	·09	...	.....
Scott	·06	·30	·39	·40	·50	·47	·51	·53	·54	·56	·58	·49	·51	·47	·36	·05	...	...
Rosthern	·07	·37	·48	·54	·56	·55	·55	·52	·56	·51	·54	·49	·49	·43	·34	·07	.....	.....
Brandon	·01	·09	·39	·58	·62	·63	·60	·60	·60	·59	·54	·51	·50	·38	·08	·02	.....	.....
Winnipeg	...	·29	·45	·50	·54	·58	·57	·61	·59	·53	·53	·55	·51	·38	·24	.....	.....	.....
Haileybury	·02	·38	·52	·58	·57	·57	·61	·58	·62	·68	·71	·68	·59	·58	·41	·06	.....	...
Woodstock	·02	·17	·59	·68	·72	·70	·76	·71	·68	·70	·74	·74	·75	·75	·22	·01	.....	.....
Lindsay		.....	·17	·48	·80	·78	·73	·76	·73	·71	·73	·73	·65	·10	·31	.....	.....	.....
Barrie		·20	·52	·60	·66	·68	·68	·66	·71	·71	·61	·62	·62	·56	·08	.....	.....	.....
Toronto		·06	·22	·75	·80	·79	·75	·68	·72	·79	·73	·71	·71	·70	·26	...	...	.....
Kingston	·01	·26	·62	·71	·75	·76	·81	·84	·78	·80	·77	·74	·67	·54	·25	·04	.....	.....
Ottawa		·26	·62	·73	·73	·74	·75	·76	·78	·76	·77	·73	·58	·52	·31	.....	.....	.....
Montreal		·14	·50	·61	·68	·75	·74	·75	·73	·74	·70	·63	·29	·07	...	.....	.....	.....
Quebec		·21	·36	·51	·61	·69	·65	·69	·72	·73	·71	·71	·64	·51	·13	...	...	...
Sherbrooke	·03	·36	·57	·65	·73	·66	·61	·63	·69	·72	·74	·67	·62	·53	·23	·02	.....	...
Fredericton		·22	·46	·59	·61	·61	·71	·72	·73	·69	·66	·70	·65	·56	·39	·01	...	...
Charlottetown	·01	·37	·54	·60	·67	·69	·70	·72	·69	·70	·66	·60	·61	·52	·27	·01	.....	.....

	Victoria.	Nanaimo.	Vancouver.	Agassiz.	Tranquille.	Summerland.	Kamloops.	Edmonton.	Lethbridge.	Lacombe.	Medicine Hat.	Ft. Vermilion.	Battleford.	Indian Head.	Moosejaw	Scott.	Rosthern.	Brandon.	Winnipeg.	Haileybury.	Woodstock.	Lindsay.	Barrie.	Toronto.	Kingston.	Ottawa	Montreal.	Quebec.	Sherbrooke.	Fredericton.	Charlottet'wn.	Dunvegan.
Registered duration in hours.	185	182	175	141	221	213	235	226	199	231	237	234	127	224	246	207	219	209	213	252	276	247	248	268	289	280	228	245	262	257	259	..
Percentage of possible duration	39	38	36	30	46	44	48	46	42	47	50	46	26	47	51	42	44	44	44	54	60	54	54	59	63	60	57	53	56	55	56	..
Difference from average	+ 3	.	.	0	.	.	..	.	..	.	.	.	11	— 1	.	..	.	— 4	— 6	..	+17	+ 7	+9	+10	+15	+13	+ 7	+12	..	+11	..	..
Maximum percentage in one day	83	83	83	80	91	90	93	91	94	94	93	76	79	89	96	89	96	82	93	96	88	86	86	84	94	93	90	87	94	92	91	..
Date of maximum	31	30	31	31	14	1	31	7	30	6	30	2	31	1	2	5	7	17	3	5	6	30	27	4	6	4	6	5	6	6	5	..
No. of days completely clouded	5	9	7	9	2	2	3	2	7	4	1	3	6	8	7	5	8	3	6	3	1	3	0	1	2	1	1	1	0	2	1	..

Aurora recorded :—

Where the class of aurora is noted by the observer, it is given, (I), being the brightest, (IV) the feeblest in brilliancy.

1. Sion, Threehills Creek, IV; Red Deer, IV; Aitkensville, IV; Peace River Crossing, IV; Muenster, IV.
2. Sion, Red Deer, IV; Aitkensville, IV; Chilcoten, IV.
4. Waitefield, II.
6. Threehills Creek, II; Red Deer, I; Hillsdown, III; Matheson, III; Grenfell, II; Melfort, II; Haileybury, IV; Kenora, IV.
7. Sion, Waitefield, II; Threehills Creek, III; Red Deer, I; Hillsdown; IV; Halkirk, Aitkensville, IV; Kakabeka Falls, III; Chicoutimi, Crescent Lake, III; Brownhill, III; Toronto, IV; Aweme, IV.
13. Chilcoten, II.
14. Cartwright, II; Point Escuminac, III; Waitefield, II; Red Deer, I; Pakan, Hillview, I; Aitkensville, III; Treherne, II; Aweme, I; Montague, Cap Magdalene, Sherbrooke, Crescent Lake, III; Grenfell, II; Melfort, IV; Muenster, Cannington Manor, St. John, II; Montreal, III; Winnipeg, II; Haileybury, III; Fort St. James.
15. Aitkensville, IV; Esterhazy, IV; Port Arthur, I.
16. Aitkensville, IV; Aweme, II; Agincourt, IV.
17. Threehills Creek, IV; Red Deer, I; Aitkensville, IV.
18. Southampton, IV.
20. Red Deer, IV; Kenora, IV.
21. Sion, Red Deer, IV; Aitkensville, IV.
22. Aitkensville, III.
23. Chilliwack, IV.
24. Sion, Chilliwack, IV.
26. Sion, Red Deer, IV.
27. Sion, Red Deer, IV; Quebec, IV; Haileybury, IV.
28. Sion, Aitkensville, IV.
29. Sion, Haileybury, III.
30. Sion, Georgetown, IV; Red Deer, IV; Aitkensville, III; Aweme, II; Agincourt, IV; Montague, Lake Talon, Crescent Lake, III; Grenfell, IV; Chaplin, IV; Stonecliffe, II; Quebec, III.
31. Threehills Creek, III; Red Deer, IV.

Thunder recorded :

1. Georgetown, Deer Park, Westminster, Wesley, Emsdale, Agincourt, Beatrice, Bloomfield, Ronville, Paris, Lucknow, East Toronto, Clinton, Brantford, Birnam, Uplands, Midland, Brome, Sherbrocke, Montreal, Parry Sound, Toronto, Gravenhurst, North Bruce, Barrie.
2. Chatham, N.B.
4. Charlottetown.
5. Bruederheim, Waitefield, Wetaskiwin, Threehills Creek, Alix, Annis, Salmon Arm.
6. Cannington Manor.
7. Chicoutimi.
8. Chaplin.
9. Deloraine, Rapid City, Cartwright, Halkirk, Hillview, Treherne, Carberry, Almasippi, Oakbank, Aweme, Esterhazy, Indian Head, Crescent Lake, Cannington Manor.
10. Emsdale, Almasippi, Beatrice, Copper Cliff, Ronville, Lucknow, Kakabeka Falls, Birnam, Bruce Mines, Providence Bay, Kenora.
11. Georgetown, Westminster, Wesley, Oakbank, Lakefield, Renfrew, Peterboro', Lucknow, Lake Talon, Kakabeka Falls, Birnam Aurora, Uplands, Schreiber, Providence Bay, Matheson, Port Stanley, Parry, Sound, Winnipeg, Port Arthur, Stoney Mountain, Lindsay, London, Barrie.
12. Matheson, Brome, Chicoutimi, Grand Manan, Montreal, Kingston, Quebec.
13. Rapid City, Cartwright, Hillview, Treherne, Ninga, Almasippi, Morden, Aweme, Grand Forks, Princeton, Esterhazy, Crescent Lake, St. John, Haileybury.
14. Oakbank, Gull Lake, Glenbryan, Winnipeg, Kenora.
15. Providence Bay.
16. Balcarres, Treherne, Ninga, Carberry, Point Clark, Peterborough, Kakabeka Falls, Birnam, Pt. Dover, Kelvinhurst, Esterhazy, Indian Head, Crescent Lake, Chaplin, Cannington Manor, Saskatoon.
17. Cartwright, Gretna, Georgetown, Wesley, Treherne, Almasippi, Morden, Point Clark, Collingwood, Lakefield, Renfrew, Lucknow, Lake Talon, Kakabeka Falls, Birnam, Bruce Mines, Aurora, Schreiber, Providence Bay, Crescent Lake, Port Arthur, Gravenhurst, North Bruce.
18. Cartwright, Georgetown, Wesport, Wooler, Deer Park, Emsdale, Treherne, Agincourt, Otonabee, Orillia, Madoc, Peterboro', Kakabeka Falls, East Toronto, Birnam, Chilcoten, Parry Sound, Toronto, Kingston, Port Arthur, Barrie.
19. Wooler, Emsdale, Almasippi, Morden, Beatrice, Copper Cliff, Otonabee, Lakefield, Montague, Orillia, Peteroboro', Madoc, Lucknow, Lake Talon, Kakabeka Falls, Haliburton, Clinton, Birnam, Bruce Mines, Uplands, Schreiber, Midland, Lake Edward, Parry Sound, Ottawa, Kingston, Gravenhurst, Lindsay, London, North Bruce.

20. Georgetown, Wesley, Agincourt, Beatrice, Point Clark, Otonabee, Owen Sound, Lucknow, Haliburton, East Toronto, Clinton, Birnam, Bruce Mines, Aurora, Matheson, Midland, Chicoutimi, Lake Edward, Cape Chatte, Chicoutimi West, Father Point, Parry Sound, Gravenhurst, Lindsay, North Bruce, Barrie.

21. Threehills Creek, Beatrice, Point Clark, Otonabee, Renfrew, Lucknow, Lake Talon, Haliburton, East Toronto, Clinton, Midland, Shawinigan Falls, Lake Edward, Chicoutimi West, Moncton, St. Stephen, Chatham, N.B., Father Point, Port Stanley, Toronto, Quebec, Gravenhurst, London, Wolfville, Barrie.

22. Georgetown, Westport, Westminster, Emsdale, Waitefield, Treherne, Agincourt, Copper Cliff, Owen Sound, Montague, Orillia, Renfrew, Lucknow, East Toronto, Brantford, Bruce Mines, Aurora, Uplands, Port Dover, Midland, Sussex, St Stephen, Windsor, N.S., Glenbryan, St. John, Montreal, Port Stanley, Toronto, Ottawa, Gravenhurst, Barrie.

23. Westport, Deer Park, Emsdale, Perkin's Mills, Agincourt, Otonabee, Lakefield, Montague, Renfrew, Peterboro', Paris, Madoc, Lucknow, Lake Talon, Haliburton, East Toronto, Clinton, Brantford, Birnam, Bruce Mines, Port Dover, Midland, Brome, Shawinigan Falls, Sherbrooke, Lake Edward, Princeton, Cranbrook, Montreal, Port Stanley, Ottawa, Kingston, Southampton, Lindsay, London, North Bruce, Barrie.

24. Rapid City, Cartwright, Gretna, Westport, Hillview, Treherne, Carberry, Almisippi, Oakbank, Morden Aweme, Madoc, Otonabee, Peterboro', Shawinigan Falls, Cannington Manor, Montreal, Ottawa, Kingston, Winnipeg, North Bruce, Kenora.

25. Otonabee, Matheson, O'Kanagan Mission.

26. Rapid City, Brandon, Hillview, Treherne, Almasippi, Oakbank, Morden, Aweme, Schreiber, Chicoutimi West, Grand Forks, Hope, Port Arthur.

27. Westport, Chicoutimi, Chicoutimi West, Grand Forks, Winnipeg.

28. Westport, Wooler, Emsdale, Lakefield, Montague, Renfrew, Peterboro', Madoc, Lake Talon, Brome, Chicoutimi, Ottawa, Shawinigan Falls, Sherbrooke, Lake Edward, Moncton, Gull Lake, Father Point, Montreal, Parry Sound, Quebec, Toronto.

29. Dunstable, Clinton, Birnam, Sussex, St. Stephen, Port Hastings, Crescent Lake, Halifax, St. John, Chatham, N.B.

30. Charlottetown, Yarmouth, Wolfville.

31. Georgetown, Westport, Deer Park, Westminster, Wesley, Waitefield, Agincourt, Bancroft, Otonabee, Renfrew, Paris, Madoc, East Toronto, Clinton, Brantford, Birnam, Bruce Mines, Aurora, Port Dover, Providence Bay, Father Point, Montreal, Port Stanley, Toronto, Ottawa, Kingston, Lindsay, Barrie.

FORECASTS FOR MAY, 1911.

The forecasts issued by this office at 11 p.m. each night are posted up at every telegraph station in Canada, and are for the 24 hours beginning at 8 a.m. the following day.

The number of these predictions issued during the month was 1294. These were divided as follows :—

District.	No. Issued.	Verified.			
		No. Fully	No. Partly	No. Not	Percentage.
Alberta	81	66	11	4	86·9
Saskatchewan	85	69	15	1	86·9
Manitoba	90	73	13	4	88·3
Lake Superior	118	82	28	8	81·4
Georgian Bay	120	96	20	4	88·3
Ottawa Valley	111	89	19	3	88·7
Upper St. Lawrence	111	89	19	3	88·7
Lower Lakes	120	92	23	5	86·2
Lower St. Lawrence	110	81	22	7	83·6
Gulf	110	77	25	8	81·4
Maritime Provinces West	117	78	29	10	79·1
Maritime Provinces East	115	81	21	10	80·9
Total	1250	973	251	70	84·9

In order to obtain the percentage of verification of the predictions, the number partly verified is divided by two and added to the number fully verified, and the result divided by the total number issued.

In ascertaining to what extent the predictions have been verified, the reports from the agents at all observing stations, as well as the telegraphic reports, are used.

R. F. STUPART, Director.

Meteorological Office, Toronto.

DEPARTMENT OF MARINE AND FISHERIES, CANADA

METEOROLOGICAL SERVICE.

Monthly Weather Review.

VOL. XXXV. JUNE, 1911. No. 6.

INTRODUCTION.

In compiling the present Review the principal data made use of are the telegraphic reports of observations received at this office for the purpose of weather forecasting, and reports by mail from voluntary observers and storm signal agents. For the data used in tracing the paths of areas of high and low pressure in the United States, we are indebted to the Chief of the Weather Bureau, Washington, D.C.

GENERAL SYNOPSIS.

To the west of the Fraser River the month of June in British Columbia was a little cooler than usual, but in the eastern portion of the province mean temperatures were either average or a little higher. A frost occurred in many parts of the interior about the 19th or 20th, causing some local damage to vegetables. Rain fell in the interior valleys on from five to nine days, in many instances accompanying thunderstorms. On the northern coast and in northern Vancouver Island, and locally in the Cariboo districts, the rainfall was more than average. Temperatures of 80° or higher were recorded in the lower interior on seven or eight days, and 90° on the 12th at Kamloops, Enderby, Tranquille, and other points in that vicinity.

Warmer weather than is average for June prevailed over the greater part of Alberta. Frost occurred at the end of the first week, and was severe at Athabasca Landing, Lunnford, and other points well to the northward, as well as the higher altitudes in the western portion of the province, in the foothills of the Rockies. At lower elevations and in the eastern portion the frost was light. Thunderstorms, accompanied by heavy rains, occurred frequently during the last two weeks in eastern districts. Hail fell heavily about the 23rd in that district lying to the east of Edmonton and to the north of Medicine Hat. In the southeast the rainfall was very much lighter and at a few points less than normal.

Although light frosts were recorded about the 7th and 9th, and again in eastern Saskatchewan on the 27th, the month was on the whole much warmer in that province than usual. From the 16th to the 21st temperatures of 80° and 90° were registered. In northern and northwestern districts the rainfall was generally heavy, but elsewhere was for the most part less than average. Thunderstorms, accompanied by heavy showers, occurred in most places about the 25th, but very few places recorded hail.

High temperatures and considerably less than normal rainfall in most districts characterized the weather of June in Manitoba. Showers occurred on an average of ten days, but were usually very light. In central-southern districts a heavy rainfall occurred on the evening or night of the 21st, amounting in some localities to between three and four inches. From the 17th to the 23rd high temperatures were recorded daily, exceeding 90° at many places and 100° at a few. 102° was recorded at Aweme on the 19th.

In the Thunder Bay, Rainy River, and Algoma districts of Ontario the month was warmer than average and the rainfall generally very heavy. In the peninsula mean temperatures did not differ very much from average, but in the Ottawa Valley and along the Upper St. Lawrence the weather was somewhat cooler than normal. Throughout the peninsula no rain occurred from about the 15th to near the end of the month, and in consequence the total rainfall was considerably less than normal. In the eastern districts the normal amount was, however, almost generally exceeded.

Mean temperatures were but little below normal in western Quebec, but in the eastern portion of the province were considerably higher. Precipitation was deficient along the Middle St. Lawrence and in northern Quebec.

Throughout the Maritime Provinces the average temperature of the month was higher than normal. From the 12th to the 24th showers were of frequent occurrence in New Brunswick, very severe thunderstorms occurring about the 19th and 20th in many localities. The rainfall in this province was everywhere in excess of normal, but in Nova Scotia, except in the northern counties, there was a deficiency; while in Prince Edward Island conditions were nearly normal.

ATMOSPHERIC PRESSURE.

The mean value of the atmospheric pressure for June closely approached the normal throughout Canada. On the Lower Mainland and Vancouver Island of British Columbia the average was slightly exceeded, as was also the case from Eastern Alberta to the Rainy River District of Ontario, and very locally in the Upper St. Lawrence Valley; elsewhere the pressure was sub-normal.

Departures from average were small, the extremes being 0.04 of an inch, positive at Victoria, B.C., and negative at St John, N.B.

HIGH AREAS.

The high areas of June were of the customary summer type, and passed slowly across the continent. Of the paths of seven which were traced, five were first observed over the North Pacific States, and these drifting eastward to the Lake Region, drew southwards and off the South Atlantic Coast, hovering there for some days. The two remaining areas travelled from the far Northwest, north of the Lake Region and over the Maritime Provinces. Pressure was high along the Pacific Coast for a considerable part of the month.

LOW AREAS.

Ten areas of low pressure were sufficiently well defined to admit of their paths being more or less accurately traced, while there were one or two minor depressions which were too indefinite to chart. One area first appeared in the Yukon Territory, one on the Northern British Columbia coast, one in the interior of British Columbia, one in Northern Alberta, four in the West Pacific States, one in the South Pacific States and one off the South Atlantic coast.

Only three of the areas traversed the continent, while four appear to have dispersed in the Canadian Western Provinces, two over the Great Lakes and one in the Lower Mississippi Valley. The area which appeared in the Yukon Territory on the 8th. after reaching the Maritime Provinces on the 14th, hovered there until the 21st, when it passed to Newfoundland.

TEMPERATURE.

In the western districts of British Columbia mean temperatures were from 1° to 3° below the normal, while in the southeast the normal mean was exceeded by from 1° to 2°. In southern Alberta there was an excess of 4° to 6°, but in some parts of the north and west less than normal warmth was reported. In Saskatchewan the excess over normal temperature ranged from 3° to 5°, and in Manitoba was about 3°; in the Lake Superior districts of Ontario and the Georgian Bay counties, about 2°. In the peninsula of Ontario both excess and deficiency were reported, but in few cases exceeding 1°, while in the eastern counties there was a general deficiency of about 1°. Temperatures were nearly normal in Western Quebec, but along the Middle and Lower St. Lawrence were 2° to 3° higher. An excess of 2° to 3° was computed for the Maritime Provinces.

The highest and lowest temperatures recorded in each Province during the month of June, 1911, were:

	HIGHEST.	LOWEST.
British Columbia,	93° at Grand Forks on the 12th... and at Revelstoke on the 1st..	25° at Atlin on the 1st, and at Hedley on the 19th.
Alberta,	93° at Medicine Hat on the 18th	24° at Pembina on the 7th.
Saskatchewan	94 at Chaplin on the 19th	29° at Quill Lake on the 27th.
Manitoba,	102° at Aweme on the 19th	26° at Pipestone on the 27th.
Ontario,	97° at Chatham on the 10th	29·5° at Matheson on the 24th.
Quebec	94° at Chicoutimi on the 7th	34·2° at Lake Edward on the 25th.
New Brunswick,	86° at St. Stephen on the 9th	35° at Dalhousie on the 23rd. 35° at Moncton on the 3rd–11th. 35° at St. Stephen on the 6th–25th.
Nova Scotia,	85° at Port Hastings on 5th–12th	28° at Port Hastings on the 3rd.
P. E. Island,	80° at Charlottetown on 19th–26th	34·5° at Charlottetown on the 4th.

PRECIPITATION.

On the northern coast, on northern Vancouver Island and locally in the Cariboo district, the rainfall of British Columbia exceeded the normal, but over the greater part of the province there was a deficiency. In the southeastern districts of Alberta less than the normal rainfall was recorded, but elsewhere there was an excess. Battleford, Prince Albert and Saskatoon reported heavy rainfall, but elsewhere in Saskatchewan there was a slight deficiency. Except at Portage la Prairie and other points in the south-central portion of Manitoba, where a very heavy rainfall measuring about four inches occurred on the 2 st, the precipitation of the month in that Province was somewhat less than the normal. Precipitation was heavy in the Lake Superior districts of Ontario, and there were local excesses in the eastern counties, but over the peninsula there was much less than the average rainfall. Along the Middle St. Lawrence and in Northern Quebec there was a deficiency, and also in Nova Scotia, except in the northern counties. In New Brunswick there was a general excess, while in Prince Edward Island the amount was normal.

WINDS, JUNE, 1911.

PROVINCES AND STATIONS.	Total Mileage.	Greatest Mileage in 24 hours.	Greatest Mileage in one hour.	Number of Gales.	Number of Strong Winds.	Number of Fresh Winds.	General Direction.
BRITISH COLUMBIA.							
Victoria	7075	512	39	4	3	4	S.W.
Triangle Island	5712	693					
Kamloops	4724	283	21	0	1	2	
ALBERTA.							
Edmonton	4576	213	21	0	1	3	N. & W.
Calgary	5317	282	25	1	2	3	
SASKATCHEWAN.							
Prince Albert	3886	285	18	0	0	2	
Swift Current	7456	403	33	5	8	5	
Battleford	6603						S.E.
MANITOBA.							
Winnipeg	6130	457	27	1	2	5	26 days only.
ONTARIO.							
Port Arthur	6191	486	35	2	5	2	N. & E.
Parry Sound	1058	234					S.W.
Pelee Island	6657	404	35	3	3	3	
Toronto	7386	510	30	1	6	2	
Guelph	6358	377					N.W.
QUEBEC.							
Quebec	7691	589	33	2	1	3	N.E.
Father Point	8351	557	40	6	4	1	W.
Anticosti	8391	472	29	2	7	1	S.E.
MARITIME PROVINCES.							
Fredericton	4616	376	24	0	3	1	N.W.
St. John	6303	440	30	3	3	2	S.
Pt. Lepreaux	7562	471	38	5	5	4	E.
Halifax	6457	371	32	2	2	3	S.
Flat Point	8250	494	29	1	4	4	S.W.
Sable Island	10224	604					

PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA, JUNE, 1911.

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

STATION.	Latitude N.	Longitude W.	Elevation above sea level, in feet.	Pressure. Mean reduced.	Pressure. Highest.	Pressure. Lowest.	Pressure. Range.	Temperature. Mean.	Temperature. Difference from average.	Temperature. Years observed.	Temperature. Highest.	Temperature. Date.	Temperature. Lowest.	Temperature. Date.	Temperature. Mean daily range.	Mean temperature of dewpoint.	Mean relative humidity.	Mean amount of cloud.	No. of days completely clouded.	Direction of wind from. N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.	Total number of observations.	Velocity of wind. Mean miles per hour.	Highest day's velocity.	Date and direction from.	Precipitation. Amount.	Difference from average.	Heaviest fall in month.	Days with 0·1 or more.	No. of fair days.	No. of cloudy days.	No. of thunder storms.	No. of fogs.
				in.	in.	in.	in.																																
British Columbia																																							
Alberni (Beaver Creek)	49	15	124	49	3	0										56·1	—	3·0	16	81·0		11	51·0		20	28·2														
Agassiz	49	14	121	46	31		2									56·1	—	3·1	19	83·0		11	35·0	19	20	27·0														
Allin	50	35	127	38	2240	29·98	30·32	29·60	.72							48·0	—	5·7	2·0		26	25·0			1	21	4													
Barkerville	53	2	121	35	4180	29·92	3	11·29	71	0·13						47·3	3·2	23	21	0	12	26·0			3	24	3													
Bella Coola	52	10	126	51	150											51·3	2·9	1·7	8	0	26	32·0			7	22	8													
Babine Lake	55	38	126	25																																			
Boswell	49	19	116	11												60·7		1·8	3	0	17	44·5			7	21	8													
Chilcotin (Big Creek	51	40	123	0	3100											52·0		8·8	1	0	14	26·0			19	32	0													
Cranbrook	49	30	115	50												50·8		7·9	2	0	12	24·0			6	32	4													
Chayoquot	49	14	125	47	40											52·8	—	1·2	12	71·0		25	36·0			3	17	0													
Cowichan (Tzouhalem	48	25	123	42	170											57·2		5·7	8	2	12	37·8			20	22	4													
Chilliwack	49	10	121	57	21											56·9	—	3·1	13	78·0	11	25	31·0			19	20	7													
Enderby	50	32	119	7	1180											65·7		9·9	0	0	12	52·0			19	32	2													
Fort St. James (Stuart's Lake)	54	28	124	12	2280											49·9	—	1·3	8	71·0		12	26·5			19	21	9													
Fairview	49	11	119	36																																			
Fruitvale	49	9	117	31												39·0	—		2	80	0	2	31·0			29	32	6													
Glacier	51	14	117	29	4072											50·8	+	0·2	11	75·0	13	17	31·0	6		20	25	5													
Golden	51	16	116	55	2580											56·9	+	0·6	10	81·0		4	32·0			2	27	0													
Grand Forks	49	2	118	27												62·4			1	93·0		12	37·0	5		20	30	9													
Greenwood	49	5	118	40												58·9			1	91·0		12	29·0			20	31	1													
Holberg	50	39	128	18												51·2			3	65·7		15	40·5			1	7	5													
Hedley	49	35	120	10												60·7			6	88·0		12	40·0			20	25	1													
Hedley (Nickel Plate)																38·6			6	61·0		15	20·0			1	17	8													
Hope	49	24	121	25												59·1			2	81·0		12	41·0			19	19	8													
Ikeda Bay	52	17	131	7	5											52·7			3	61·0	27	30	40·0	19	20	11	3													
Kamloops	50	41	120	29	1215	29·88	30·21	29·57	0·61							61·1	+	0·3	19	89·0		12	41·0			1	26	3		50	3	3	3	2	1	1	1	1	28	3	11	60	6·6	16·0	1·8							
Ladner	49	5	123	4												55·9		0·8	10	76·0		25	30·0			18	22	7													
Massett, Q.C.I.	53	58	132	9	30											52·7		1·1	11	66·0	24	26	41·0	5	20	10	9													
a Nanaimo	49	10	123	37	125	29·95	30·15	29·57	0·15							56·4		1·0	11	77·9		12	35·2			19	19	1		77	4	1	0	7	0	11	6	0	1	21	21	60	6·5	24·0	23 NW							
Nicola Lake	50	9	120	30	2120											57·1	+	0·2	16	84·0		13	33·0			19	26	3													
North Nicomen	49	12	122	2	50											57·6		1·6	19	84·0		12	39·0	5	2	2	7	2													
New Westminster	49	13	122	54	330											56·8	—	1·6	23	79·2		10	39·7			19	19	6													
Nelson	49	29	117	21	1760											60·3			9	86·0		1	42·0			3	7	21	5												
Needles	49	10	118	9												58·5			2	84·0		1	38·0			20	28	4													
Okanagan Mission	49	52	119	29	1200											61·1	—	0·2	13	86·0		1	36·0			20	28	4													
Princeton	49	28	120	30	1650											56·6	+	0·2	15	85·0		12	30·0	3		20	30	8													
Penticton	49	29	119	35												60·9			5	82·5	1	15	37·0			5	23	9													
Pemberton Hatchery	50	20	122	33												57·6	—		3	85·5		14	32·5	19	20	28	0													
Prince Rupert	54	18	130	18	170	30·03	30·29	29·75	0·54							49·8			2	67·0		25	39·0			6	12	8		80	8	15	3	1	6	1	8	15	2	1	23	60	2·9	12·0	19 N E							
Quesnelle	52	59	122	30	1700											54·0		2·7	16	81·0	13	26	27·0			24	30	3													
Revelstoke	51	0	118	6	1170											61·2	+	2·2	12	94·0		1	32·0			20	29	3													
Rossland	49	5	117	48	3400											58·3			7	80·0		15	11·0			1	18	8													
Ruskin (Stave Falls)	49	16	122	23	125											60·0			2	80·0		1	38·0			18	24	1													
Salmon Arm	50	12	119	35	1152											61·0			9	90·0		1	31·0			20	29	4													
Steveston (Garry Point)	49	21	123	17												55·6	+	0·9	16	72·0		27	35·0			23	17	9													
Swanson Bay	50	37	128	53												49·9			3	65·0	11	13	37·0	2		19	15	1													
Summerland	49	37	119	0	1100											62·0			4	86·0		1	40·0			5	22	8													
Sooke	48	11	123	44	25											53·1			1	72·0		13	35·0	4		19	19	2													
Stewart	56	1	130	1	215											53·6			1	81·0		25	35·0			16	21	3													
Tobacco Plains (Elko)	49	1	115	5	2681											61·5	+	5·9	16	90·0		22	40·0			6	26	1													
Triangle Island	50	52	129	5	680																																		
a Tranquille	50	41	120	20		28·71	28·96	28·42	0·54							63·5			3	90·0	12	15	39·0			19	28	6		67	4	1	12	12	3	3	0	8	8	11	0	60				0·14		0·67	3·2		0	6		
Vernon (Coldstream Ranch)	50	14	119	15	1216											60·4	+	0·1	18	87·0	1	15	35·0			7	20	4													
Victoria	48	24	123	19	85	30·05	30·26	29·83	0·43							56·4	+	0·3	19	73·2		10	10·2			19	17	5		68	6	3	0	1	2	3	2	31	8	2	8	60	11·1	32·0	2 SW							
Vancouver	49	17	123	5	136	30·05	30·26	29·79	0·47							57·2		1·0	11	72·6		12	41·5			6	17	3		73	4	1	3	1	13	11	3	7	8	2	12	60	3·7	12·0	16 S							
Winter Harbour	50	32	128	3												50·9			15	61·0	1	26	39·0	3		16	13	9													
Wilmer	50	30	116	1															2																					

YUKON :—																																									
Carcross	60	11	134	31	2171					49·0	—	5	75·0	22	29·0	11	22·0																	0·72	—	0·26	10	20	0	0	0
Dawson	64	4	139	20	1200	29·98	30·40	29·11	0·99	56·7	−1·2	10	83·0	22	31·0	2	[illegible]				13	0	3	1	1	1	0	0	38	60				0·87	−0·99	0·41	9	21	0	0	0
White Horse	60	15	135	0	2075																																				
ALBERTA—																																									
Athabasca Landing	54	43	113	47	1650					56·5	—	8	78·0	13	29·0	7	21·0				1	0	1	5	1	3	11	5	0	30				5·18	—	0·91	13	17	0	5	0
Alix	52	24	113	10						57·4	—	7	78·0	1-18	37·0	6	20·3				1	1	2	5	1	3	0	12	2	30				5·16		1·51	12	18	0	5	3
Banff	51	10	115	34	4542	29·90	30·31	29·53	0·78	53·2	+2·1	16	76·6	12	29·3	4	26·1			6	2	6	1	0	2	23	5	0	21	60				2·84	−0·35	0·96	13	17	0	2	0
Blairmore	49	40	114	30	4225					55·6	—	1	81·2	12	30·3	5-6	28·2																	1·95	—	0·98	8	22	0	2	0
Calgary	51	2	114	2	3389	29·81	30·18	29·18	0·70	57·6	+5·0	27	82·0	17-18	36·0	5	23·6			5	12	1	6	5	3	0	5	21	1	60				2·63	−0·64	0·41	14	16	0	1	0
Cardston	49	12	113	18						58·5	—	7	85·0	19	38·0	5	30·9																	6·32	—	1·80	5	25	0	0	0
Didsbury	51	40	114	8	3300					57·7	—	9	81·0	11	36·0	5	22·9				2	3	5	4	3	1	0	11	0	30				1·50	—	0·98	13	17	0	0	0
a Dunvegan	55	56	118	35	1305																																				
Delia										57·7	—	1	82·9	18	32·5	5	25·1				10	6	6	9	10	4	2	15	1	60				5·29	—	1·70	9	21	0	6	1
Edmonton	53	33	113	30	2158	29·86	30·21	29·16	0·78	59·4	+2·2	29	82·0	16	31·0	7	21·9			8	16	0	6	1	10	4	17	5	4	60				3·80	+0·39	0·96	17	13	0	5	0
Eckville	52	23	114	22						51·0	—	4	80·0	1	30·2	5-6	26·5																	3·05		0·65	6	21	0	5	0
Endiang	52	0	112	0	2795					57·4	—	1	80·5	16	31·7	5	23·1																	5·30		4·72	8	22	0	0	0
Fort Vermilion	58	27	116	3						55·0	—	7	81·3	11	32·0	26	25·9																	2·81		1·30	9	21	0	0	0
Gleichen	50	59	112	54	2952					59·7	—	8	85·0	16	35·0	6	27·6																	1·48		0·75	4	26	0	3	0
Gilt Edge	52	59	110	43						58·9	—	2	88·2	16	30·2	7	26·2																	3·88		1·26	10	20	0	0	0
Hillsdown	52	11	113	29	2806					57·9	—	7	80·0	17	37·6	6	22·0				0	1	0	11	2	8	0	31	7	60				5·04		1·11	15	15	1	4	0
High River	50	35	113	53	3391					57·6	—	8	83·0	12-17	36·0	6	26·2																	1·63	—	1·13	12	18	0	0	0
Harmattan	51	45	114	23	3500					54·2	—	4	78·0	1 17	30·0	6	26·6																	3·46	—	0·78	12	18	0	6	0
Halkirk. (Emsburg)	52	17	112	10						57·7		2	84·0	17	36·0	6-7	22·7				7	12	6	8	8	4	4	31	0	60				6·94	—	4·97	12	18	0	5	0
Lethbridge	49	42	112	40	2961					63·7	+3·9	10	89·1	12	39·6	6	25·8																	4·62	+1·55	1·35	11	20	0	0	0
Lethbridge (Exp. Farm)	49	43	112	51						61·8	—	4	86·5	19 22	35·4	6	26·2																	1·71	—	1·13	10	20	0	0	0
Lacombe	52	58	112	51	2783					57·5		4	80·0	16	31·7	6	21·9																	5·63	—	1·15	16	14	0	1	0
Lawrence	50	46	113	26						58·8		4	90·0	13-14	32·0	1 7	38·1																	3·57	—	0·78	10	20	0	0	0
Lunnford	51	33	114	19						55·7		2	78·2	11	28·5	7	25·5																	5·60	—	1·30	19	11	0	1	0
Loveland	52	30	114	59						59·4	—	2	81·0	18	31·0	5	25·0				0	11	2	10	2	3	5	8	0	11				4·73		1·35	12	18	0	1	0
Medicine Hat	50	1	110	37	2161	29·78	30·24	29·44	0·80	67·2	+5·8	27	95·0	18	43·0	9	27·0			3	2	1	6	7	8	3	11	11	8	60				3·60	+0·98	1·22	12	18	0	7	1
Macleod	49	44	113	24	3128					64·9	+4·3	15	86·0	13	42·0	6	23·0																	4·61	+3·61	0·87	14	16	0	7	0
Peace River Crossing	56	15	117	15						56·6	—	4	85·0	12	31·0	1 4	21·5																	2·67		0·71	8	22	0	3	0
Pembina	54	12	114	0						56·2	—	4	79·0	3 12	21·0	7	26·8				2	8	2	2	3	1	18	5	18	59				6·98		1·42	11	16	0	0	0
Pakan (Victoria)	54	0	112	31						57·8		9	79·3	2	31·5	6	23·3				8	15	5	0	9	3	7	8	5	60				4·12		0·80	11	19	0	4	0
Pincher Creek	49	0	114	4	3750					58·1	0·2	13	82·0	12 13	35·0	1-4	25·3																	4·05	+0·76	2·11	10	20	0	0	0
Red Deer	52	16	113	49						50·2	3·0	12	79·0	1	30·0	14	21·9				1	3	0	0	5	1	3	8	[illegible]	27				5·07	—	1·18	10	20	0	0	1
Spirit River	55	40	118	47						55·3		2	85·0	12	27·0	4	27·1																	4·10	—	0·75	13	17	0	3	0
Sundial	50	6	112	34						63·4		4	88·0	11 19	39·5	5	26·6																	2·94	—	0·93	9	21	0	0	0
Threehills Creek	51	30	113	44						57·9	—	9	82·0	16	35·5	4	24·7																	3·79	—	1·05	17	13	3	9	0
Wetaskiwin	52	58	113	23	2180					58·0	—	7	81·0	17	40·0	6	20·9																	2·29		0·62	11	19	1	2	0
Waitefield	53	29	111	38	2400					58·2	—	6	82·0	16	31·5	7	22·0				6	7	11	16	0	3	6	18	21	90				1·44		1·94	22	8	0	13	1
SASKATCHEWAN—																																									
Battleford	52	41	108	20	1620	29·[illegible]5	30·27	29·46	0·81	62·4	+3·4	21	85·0	17	38·0	7	22·6				2	11	3	31	0	3	6	6	25	90				7·36	3·89	3·42	13	17	0	0	0
Boutin										59·6	—	4	88·0	17	35·0	9	27·0																	5·22		0·80	15	15	3	3	0
Broadview	50	23	102	33	1960					62·9		7	97·0	19	31·0	27	29·9																	3·70		1·70	6	24	0	0	0
Brownlee	50	45	106	0						61·4		4	90·4	18	38·1	9	23·4				4	1	5	7	5	2	2	4	0	30				2·70	—	0·71	12	1	0	0	0
Chaplin	50	26	106	39	2202					62·1	+0·7	25	94·0	19	40·0	5	25·5				1	9	0	9	0	0	0	11	0	30				3·82	0.05	1·26	16	14	0	0	0
Cannington Manor	49	43	102	2	2064					61·6	+3·9	15	91·0	20	36·0	27	23·0																	1·15	—	0·28	9	21	0	0	0
Crescent Lake	50	59	102	25	1658					60·8		7	88·0	19	32.8	27	22·1				1	6	1	0	9	1	4	3	2	30				1·91	—	0·61	15	15	0	5	1
Cumberland House	53	56	102	16						61·0	—	1	81·0	26	40·0	2	18·3																	3·69	—	1·75	5	25	0	0	0
Duck Lake	52	54	106	20																																					
Estevan	49	12	103	4	1858					63·3		7	90·5	18	36·0	26	21·6				0	2	8	1	2	7	1	5	1	30				2·04		0·53	9	21	0	0	0
East End	49	31	108	49																																					
File Hills	51	4	103	31																																					
Grenfell (Brownhill)	50	23	102	53	1957																																				
Glenbryan (Larchmount.)	49	51	107	27						60.5	—	1	92·0	19	38·2	1	28·6				2	10	16	6	0	1	17	5	0	60				4·93	—	2·34	12	18	1	3	0
Humboldt	52	12	105	9						69·3	—	4	90·0	20	31·0	27	25·9																	1·59		0·52	4	26	0	0	0
Hubbard (Drumague)	51	5	103	24																																					
Indian Head	50	28	103	40	1924					65·4	+1·8	20	92·0	18	38·0	26	22·1				1	9	20	11	10	8	7	9	9	90				4·28	0·13	1·51	7	23	0	0	0
Kelvinhurst										64·1	—	1	93·0	22	36·0	29	30·3																	1·33	—	0·27	10	20	0	0	0
Lloydminster	53	18	110	0						58·4	—	4	85·5	17	31·2	7	25·0																	3·61	—	1·10	12	18	0	5	2
Lanigan	51	51	105	2																																					
Luseland	52	5	109	24						58·2		4	86·2	18	35·0	9	29·6																	5·78	—	2·96	11	19	0	0	0
Lost River										59·8		1	87·0	20	37·0	27	23·5																	3·21	—	1·09	8	22	0	0	0
Moose Jaw	50	21	105	35	1759					63·2	+4·9	5	92·0	18	39·0	27	25·0				11	23	12	6	0	8	5	8	17	90				2·38	−0·83	1·00	7	23	0	3	0
Moosomin	50	0	101	37	1884					61·8		10	93·0	19	34·0	27	21·3				1	0	20	0	5	1	3	0	0	30				2·53	—	1·21	10	20	0	0	0
Muenster (St. Pete 's Monaster.)	52	0	105	0	1870					59·0		5	87·0	19	31·0	27	23·8				0	10	0	0	0	12	0	8	0	30				2·90		1·50	5	25	0	3	0
Melfort	52	47	104	39						60·3	—	2	87·5	19	37·0	7	23·6																	3·07	—	0·95	12	18	0	0	0
Maple Creek	49	55	109	28																																					
Orion Lake	53	52	109	50																																					
Oliver	51	46	108	10																																					
Pense (Gate-garth)	50	20	105	0	187					60·8	2·6	15	94·0	18	35·0	27	28·1				0	3	5	4	7	1	3	5	2	[illegible]				2·31	[illegible]	0·27	13	17	0	0	0
Prince Albert	53	10	106	0	1432	29·72	30·88	29·07	1·81	60·8	+3·2	25	88·0	19	38·0	7	26·7				2	0	16	6	1	0	6	6	20	60				3·09	−0·46	1·15	8	22	0	0	0
Prince (Meota)	51	0	108	24	1700					59·6	—	4	83·0	16	31·0	5-6	24·3																	7·11		3·11	11	19	0	5	0
Qu'Appelle	50	30	103	47	2115	29·86	30·20	29·59	0·61	61·9	+2·2	27	88·5	15	38·0	27	21				3	6	10	12	6	9	1	10	0	60				3·29	[illegible]	[illegible]	[illegible]	[illegible]	0	6	0

PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA, JUNE, 1911.

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

STATION.	Latitude N.	Longitude W.	Elevation above sea level, in feet.	Pressure: Mean reduced.	Pressure: Highest.	Pressure: Lowest.	Pressure: Range.	Temperature: Mean.	Difference from average.	Years observ'n	Highest.	Date.	Lowest.	Date.	Mean daily range.	Mean temperature of dewpoint.	Mean relative humidity.	Mean amount of cloud.	No. of days completely clouded.	Direction of wind from: N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.	Total number of observations.	Velocity of wind: Mean miles per hour.	Highest day's velocity.	Date and direction from.	Precipitation: Amount.	Difference from average.	Heaviest fall in 24 hours.	Day.	No. of days [illegible]	No. [illegible]	No. [illegible]	No. [illegible]
				in.	in.	in.	in.																																	
SASKATCHEWAN—*Con.*																																								
Quill Lake	52 1	104 11						53.5	—	1	72.0	20	29.5	27	14.3					6	7	9	11	6	2	10	9	[illegible]	60				2.[illegible]	—	1.73	7	23	[illegible]	2	0
Regina	50 27	104 37	1885					61.6	+1.6	26	90.6	18	36.0	27	23.3																		2.89	−0.12	1.15	11	16	[illegible]	1	0
Rathmullen	51 20	108 57						62.0		2	88.0	18	40.8	7	26.2																		2.84	—	0.71	12	18	[illegible]	3	0
Rosthern	52 40	106 20	1657					61.2	—	1	81.7	20	38.2	9	22.7																		3.37		1.13	13	17	0	0	0
Swift Current	50 20	107 45	2439																																					
Saskatoon	52 1	106 30	1571					61.8	+3.7	11	95.8	19	39.5	27	21.8																		5.07	+2.70	1.17	12	18	0	[illegible]	0
Strassburg	51 [illegible]	104 56						62.6	—	2	93.0	18	35.0	5	23.6																		3.60		3.05	5	2	0	[illegible]	0
Scott (Ex. Farm)	52 7	109 30																																						
The Pas	53 49	101 15	870																																					
Waseca	53 6	109 29																																						
Yorkton	51 11	102 29																																						
Yarbo (Fairfield)	50 39	102 1																																						
MANITOBA—																																								
Almasippi	49 11	99 20						61.1	—	9	91.0	19-20	33.0	27	21.9																		2.68	—	1.[illegible]	11	19	0	[illegible]	0
*a*Aweme (St. Alban's)	49 42	99 34	1180	28.7[illegible]	28.95	28.46	0.49	66.1	+3.3	27	102.0	19	35.5	27	25.8																		1.79	+1.61	0.[illegible]2	13	17	2	[illegible]	[illegible]
Brandon	49 51	99 57	1176					64.2	+3.2	22	[illegible]	19	35.0	27	23.2			6	4	0	25	9	8	3	5	11	26	3	90	1	11	—	1.67	+1.16	0.6[illegible]	11	19	[illegible]	[illegible]	0
Berens River	52 18	97 23	710					—	—	5	—	—	—	—	—																		0.80		0.55	2	5	0		
Birtle	50 25	101 1	1703																																					
Carberry	49 52	99 20	1258						—	6	95.0	18	—	—	—																		0.96	—	0.23	11	19	0	3	0
Carman	49 31	98 0	872							6	91.0	21	37.0	27																			2.71	—	2.31	4	6	0	0	0
Cypress River	49 33	99 3	1272					62.8		6	[illegible]	20	34.0	27	23.7																		1.58		1.80	9	21	0	0	[illegible]
Dauphin	51 8	100 2	957					61.8		5	92.0	19	42.0	27	22.1																		1.69	—	0.67	8	22	0	[illegible]	[illegible]
Hillview	49 55	100 33	1400					63.0	+1.9	26	94.[illegible]	19	38.0	27	19.5			5	1	9	17	16	1[illegible]	10	15	3	9	1	9[illegible]				2.82	+0.16	[illegible]	11	7	[illegible]		1
Minnedosa	50 15	99 50	1690	29.85	30.18	29.63	0.55	61.9	+2.3	28	90.0	19	32.8	3	22.9					5	8	7	5	1	0	3	3	28	60				3.05	+0.75	1.10	[illegible]	1[illegible]	1	7	3
Morden	49 11	98 6	978					61.9		6	9[illegible].5	20	37.0	27	21.6																		1.31	—	0.2[illegible]	16	11	0	4	2
Moose Horn Bay (Aitkens)	51 15	99 33						64.[illegible]		2	85.2	20	39.2	27	20.6					8	6	1	9	6	1	1	2	13	53				1.4		0.7[illegible]	8	2[illegible]	1		
Ninga	49 11	99 51	1619					—	—	1	94.5	19	—	—	—																		2.44		1.4[illegible]	[illegible]	2[illegible]	0		0
Oakbank	49 57	96 42	800					63.5	+3.5	16	87.0	29	41.5	28	18.0					4	5	0	4	4	2	1	9	1	30				3.07	+0.07	0.73	[illegible]	22	0	6	[illegible]
Pipestone	49 31	100 58	1400					63.5		9	90.0	20	26.0	27	2[illegible].5																		1.17		0.30	[illegible]	2	0	[illegible]	0
Portage la Prairie	49 57	98 17	83[illegible]					64.8	+3.2	21	88.0	20	39.0	26	19.0																		5.70	+3.3[illegible]	3.2[illegible]	11	1[illegible]	0	[illegible]	[illegible]
Portage la Prairie (2)	49 50	98 17						61.5	—	6	90.0	2[illegible]	40.0	27	14.0																		1.74		2.1[illegible]	12	18	[illegible]	[illegible]	[illegible]
Pierson	49 11	101 5	1531					63.3	—	6	96.0	20	30.0	2	23.3																		1.93		0.6[illegible]	7	2[illegible]	0	[illegible]	0
Stony Mountain	50 10	97 14	803					61.8	+0.5	3	80.0	1	38.0	27	23.3					8	8	5	4	2	6	0	5	0	38	11	111	—	1.25	+1.8[illegible]	[illegible]	[illegible]	[illegible]	0	[illegible]	0
Swan River	52 6	101 15	1112					62.3	—	1	86.[illegible]	18	41.0	1	25.5																		3.52		1.06	1	[illegible]	[illegible]	[illegible]	0
Treherne	49 20	98 40	1212					61.5	+1.9	16	91.0	19	36.0	27	20.2																		1.9[illegible]	—	0.73	4	10	[illegible]	[illegible]	[illegible]
Virden	49 51	100 55	1444					61.4		6	94.0	19	36.0	26	20.0																		1.56	—	0.73	8	22	[illegible]	0	1
Winnipeg	49 55	97 7	760	29.80	30.13	29.[illegible]6	0.[illegible]7	61.5	+2.1	37	89.2	20	41.4	27	19.6					18	6	7	4	10	3	4	3	5	60				2.27	+1.17	0.42	15	15	0	1	0
ONTARIO—																																								
Alton	43 51	80 5	1250																																					
Aurora	43 57	79 24	88[illegible]					63.7	—	3	87.0	27	41.1	1	22.7																		1.77	+1.25	0.9[illegible]	9	21	0	4	0
Agincourt	43 47	79 16	5[illegible]0					64.2	+0.1	15	90.2	22	42.2	29	22.0					19	6	4	11	11	14	11	5	6	90				1.52	+1.08	[illegible]	10	20	1	4	[illegible]
Barrie	44 24	79 41	7[illegible]9					63.0	−3.3	31	83.0	27	44.3	29	19.1			5	2	9	9	14	1	6	3	5	27	13	90				1.66	—	0.52	[illegible]	[illegible]	1	3	0
Beatrice	45 8	79 20	[illegible]					62.1	+1.2	36	85.0	25	40.0	17-21	21.3					10	0	1	1[illegible]	7	2	2	13	15	90				2.50	+0.71	0.69	11	13	0	4	0
Bruce Mines	46 18	83 50	[illegible]					61.3	+0.2	13	88.0	19	40.0	21	20.9																		1.96	+1.19	0.58	10	2[illegible]	0	6	0
Birnam	43 2	81 5[illegible]	67[illegible]					65.0	+0.6	26	91.3	10	40.3	2[illegible]	21.2					15	7	8	7	2	0	11	5	5	60				2.35	+1.06	1.30	8	22	0	6	0
Brantford	43 10	80 24	7[illegible]					67.4	+2.4	29	92.0	22	41.0	15	22.0																		2.62	+0.42	1.19	[illegible]	23	0	9	0
Bloomfield	43 59	77 2[illegible]	2[illegible]					63.9	−0.2	14	83.0	28	45.0	24	19.1																		3.80	—	1.63	9	21	0	3	0
Bancroft	45 1	77 50						61.7	0.8	20	84.0	19	36.0	23	23.1																		3.41	−0.52	1.88	3	27	0	2	0
Copper Cliff	46 50	80 59						61.0		5	86.5	18	35.0	3	23.9																		1.17	—	0.30	[illegible]	2[illegible]	0	1	[illegible]
Clinton	43 32	81 37						63.5	—	9	87.0	11	42.0	21	20.9					4	1	9	1	2	4	10	25	1	60				1.93		0.56	8	22	0	3	0
Coldwater	44 38	79 40	600																																					
Cottam	42 7	82 45	606					66.7	−0.7	29	96.0	10-22	44.0	1	2[illegible].7					19	0	6	2	11	3	15	1	0	60				4.07	+1.46	1.35	5	25	0	0	0
Chatham	42 23	82 12	595					69.1	+2.9	29	97.0	10	47.0	1-18	26.1																		2.16	+0.46	1.65	[illegible]	28	[illegible]	[illegible]	[illegible]
Collingwood	44 31	80 2							—	15	96.0	18	48.0	16																			3.00	—	1.50	4	26	0	3	0
East Toronto	43 35	79 18						63.3	—	5	91.0	22	44.0	29	21.9																		0.93	—	0.35	8	22	0	1	0
Elora	43 41	80 24	1274					64.2	−0.1	14	89.0	10	40.0	29	26.2																		0.80	+1.21	0.23	10	2	0	0	0
Gravenhurst	44 51	79 20						62.1	−0.7	40	84.0	19-25	34.0	17-21	21.0			5	5	13	2	18	5	8	6	9	8	21	90	11	[illegible]	—	1.94	−1.50	0.48	11	19	2	6	0

ONTARIO—*Concluded.*																	
Guelph	43	33	80	16	1050					64·8	+ 1·9	33	88·0	10 11	43·0	16-29	23·0
*a*Grimsby	43	13	79	36		29·55	29·86	29·14	0·72	65·5	—	2	95·0	23	45·0	6	21·5
Haileybury	47	29	79	39	687	29·94	30·32	29·48	0·84	62·1	+ 0·7	18	84·2	27	41·0	23	20·5
Hamilton	43	16	79	54	303					67·2	— 1·1	33	95·0	22	47·0	29	19·9
Haliburton	45	1	79	8	1050					62·9	+ 0·6	22	87·0	11-25	37·0	24	26·3
Huntsville	45	19	79	8						62·3	—	4	83·0	11-25	39·0	24	23·9
Kenora	49	48	94	32	1102					62·8	+ 1·1	12	90·0	19	40·0	27	22·8
Kakabeka Falls	48	29	89	26	912					59·9	—	2	89·0	19	37·0	29	25·7
Kingston	44	13	76	29	285	29·91	30·25	29·59	0·66	62·3	— 0·5	37	75·2	26	46·6	24	13·9
Kinmount	44	45	78	38	920					62·0	0·0	12	81·0	10	31·0	23	25·0
Lucknow	43	56	81	30	908					62·2	— 1·1	24	84·6	10	35·4	29	23·0
Lake Talon	46	15	78	48						63·3	+ 1·9	17	88·0	8	35·0	24	27·0
London	42	59	81	13	808	29·94	30·26	29·57	0·69	67·7	+ 1·8	26	97·5	10	42·5	29	21·5
Lakeside Home	43	10	79	21						60·4	—	7	92·0	22	45·0	5-6	18·8
Lorne Park	43	32	79	37						65·8	—	3	92·0	22	45·0	29	25·4
Lindsay	44	21	78	45	872					64·3	+ 0·7	31	87·5	27	41·9	29	22·1
Wakefield	44	25	78	15	850					61·3	— 0·2	28	80·0	11 12	49·0	6	17·4
*Midland	44	44	79	53	750					68·5	—	1	85·0	11 30	50·0	6	—
Madoc	44	30	77	29	575					64·1	—	7	84·0	19-27	42·0	21	[illegible]
Montague	44	56	75	57						63·9	—	2	86·0	30	45·0	24	21·4
Montreal River	47	8	79	29						61·0	—	1	89·0	26	36·0	3-24	27·0
Matheson	48	29	81	26						58·1	—	1	93·0	8	29·5	24	29·9
*North Bruce	44	23	81	25						57·7	— 3·9	24	84·0	10	42·0	1-30	—
North Gower	45	8	75	43						—	—	9	90·0	28	45·0	3-26	—
Owen Sound	44	34	80	55	597					63·8	+ 2·2	32	90·0	22	40·0	2-30	21·6
Orillia	44	37	79	24	775					65·1	— 1·4	17	88·0	19	45·0	29	22·6
Ottawa	45	26	75	42	294	29·91	30·21	29·51	0·70	[illegible]	— 1·[illegible]	28	85·0	27	41·0	24	17·4
*Ottonabee	44	2	78	18	671												
Port Arthur	48	27	89	12	644	29·91	30·23	29·53	0·70	58·0	+ 1·6	31	80·0	14	40·0	28	18·0
Port Stanley	42	40	81	13	592	29·95	30·23	29·60	0·63	61·8	+ 1·2	36	83·4	27	41·0	29	19·5
Port Dover	42	47	80	13	635					61·4	+ 0·1	35	85·5	10	45·0	29	17·0
Port Burwell	42	39	80	55	592					64·8	—	8	82·0	20	42·0	11	17·8
Parry Sound	45	19	80	0	635	29·95	30·24	29·52	0·72	61·0	+ 1·8	35	90·0	25	41·0	2	22·3
Point Clark	44	5	81	44	595					—	—	37	—	—	—	—	
Pelee Island	41	50	82	35	585					76·3	+ 8·2	31	91·0	21	50·0	2	13·4
Paris	43	12	80	23	840					67·4	+ 2·0	22	91·0	10	39·0	13	23·3
Peterboro	44	17	78	19	722					65·0	— 0·1	35	86·0	27	45·0	2-29	20·9
Porcupine	48	29	81	18						60·8	—	1	87·5	25	31·2	2	27·2
Providence Bay	45	40	82	14													
Rouville	45	15	78	57	1038					60·8	—	4	83·0	19	40·0	20-29	20·9
Renfrew	45	26	76	39	416					63·6	— 1·0	23	87·2	19	41·0	24	22·6
St. Catharines	43	9	79	17	317					—	—	1	90·5	22	45·0	6	—
Stonecliffe (Rockliffe)	46	9	78	6	557	29·91	30·32	29·50	0·82	60·5	— 0·2	34	80·0	30	37·0	3	20·7
Southampton	44	30	81	21	656	29·97	30·37	29·53	0·84	61·1	— 0·1	35	84·0	10	41·0	15	18·2
*Sarnia	42	59	82	21	586												
Stratford	43	23	81	0	1191												
Stony Creek	43	13	79	45	292					65·1	— 0·9	25	93·0	22	41·0	17	20·5
Schreiber	48	5	87	15						57·4	— 0·1	12	86·0	19	35·0	29	20·7
Shelburne	44	5	80	17						62·1	—	3	85·0	11-25	40·2	29	20·9
Toronto	43	40	79	24	350	29·91	30·23	29·56	0·67	65·6	+ 1·0	70	91·6	22	47·2	6	29·8
Uxbridge	44	5	79	8	886					63·7	—	6	87·0	27	42·	29	22·5
Uplands	45	18	79	25						60·4	+ 3·0	25	85·0	11	31·7	21	28·0
Ursa	44	54	78	1													
White River	48	35	85	16	1252	29·9	30·24	29·42	0·82	59·2	+ 1·9	20	82·0	10-26	34·0	15-29	27·5
Woodstock	43	8	80	47	980	29·93	30·24	29·56	0·68	65·3	+ 1·2	38	88·0	10-22	42·0	29	21·2
Welland	42	59	79	17	577					65·9	+ 0·7	25	86·0	11	48·0	16-29	29·2
Windsor	42	20	83	4	625					69·6	+ 3·7	27	92·0	11	51·0	1	17·6
Wallaceburg	42	35	82	24						68·0	—	6	93·0	10-22	41·0	28	23·8
QUEBEC—																	
Abitibi	48	43	79	22						59·1	+ 0·5	15	81·0	26	35·0	4	22·1
*Anticosti, E. Point	49	6	61	42	30					48·3	— 0·1	27	62·0	7	37·0	3	—
*Anticosti, W. Point	49	52	61	32	30					51·8	+ 0·2	29	73·0	27	29·0	2	—
Brome	45	10	72	33	678					62·0	— 0·3	32	81·0	27	38·0	3	18·8
*Bicquet	48	25	68	53						51·2	+ 0·9	29	70·0	9	34·0	21	—
Clarke City	50	0	66	25													
*Cape Chatte	49	6	66	45						55·7	+ 1·5	27	73·0	28	39·0	2	—
*Cape Magdalen	49	16	65	20	93					55·2	+ 1·0	29	86·0	27	39·0	1-2	—
Chicoutimi	48	25	71	5	150					61·0	+ 1·5	34	86·6	10	37·8	25	23·4
Chicoutimi (2)										61·8	—	1	91·0	7	35·0	25	21·6
Cap Rouge	46	46	71	18						61·1	—	1	83·0	29	39·2	3	20·0
Disraeli	45	55	71	21						60·6	—	1	83·0	27	35·5	26	26·5
Father Point	48	31	68	19	20	29·88	30·43	29·36	1·07	55·7	+ 3·1	33	78·0	27	37·3	2	16·8
Lake Edward	47	39	72	15	1333					57·4	—	2	82·2	29	54·0	25	22·1
Montreal	45	30	73	35	187	29·91	30·25	29·48	0·77	65·5	+ 0·4	36	83·3	28	50·4	2	15·6

ONTARIO—*Concluded.*																					
Guelph																0·89	—1·92	0·33	8 22	0	0	0
*a*Grimsby																2·67	—	0·72	12 18	0	0	0
Haileybury				12	1	2	3	10	3	2	10	17	60	1	III		3·79	+0·10	2·26	9 21	2	5	0
Hamilton																1·37	—2·02	0·83	4 26	5	2	0
Haliburton																1·92	+1·27	1·00	10 20	0	8	9
Huntsville																—	—	—	—	0	0	0
Kenora																1·16	—	1·02	5 25	1	0	0
Kakabeka Falls																5·26	—	1·36	1 15	0	7	2
Kingston				1	12	1	7	3	21	4	9	2	60				3·53	+0·33	2·12	12 18	0	5	1
Kinmount																3·80	—	1·36	7 23	0	0	0
Lucknow																1·46	—1·14	0·43	10 20	0	7	2
Lake Talon																1·98	+0·42	0·65	8 22	2	2	3
London		5	6	0	21	9	12	0	0	7	38	0	90				1·77	—0·91	1·18	9 23	[illegible]	2	0
Lakeside Home																—	—	—	—	0	0	0
Lorne Park																1·35	—	1·13	9 21	0	0	0
Lindsay		6	1	18	3	6	5	2	12	10	9	25	90	1	III	6 N E	1·03	—1·65	0·47	9 1	0	4	1
Wakefield																1·97	—0·68	0·62	9 21	0	2	0
*Midland																1·48		0·50	10 20	0	7	0
Madoc																3·33		1·26	10 20	0	5	0
Montague																1·97		0·60	5 25	0	3	0
Montreal River																3·18		1·20	9 21	0	2	0
Matheson				6	3	0	1	22	2	6	13	7	60				2·05	—	0·55	14 16	0	4	0
*North Bruce				0	1	16	13	15	1	33	11	0	90				1·46	—1·04	0·46	8 22	0	0	1
North Gower																2·11	—	0·83	3 27	0	1	0
Owen Sound				21	0	1	0	36	0	1	1	0	60				—			—	0	3	2
Orillia				8	3	1	2		5	1	7	0	30				1·47	—1·82	0·57	7 23	0	4	0
Ottawa				0	2	11	5	8	5	25	2	2	60				3·38	—0·37	1·10	13 17	0	7	0
*Ottonabee																						
Port Arthur				— 8	10	25	1	2	0	4	3	7	60				6·23	+3·24	1·55	16 11	0	5	4
Port Stanley				1	2	8	8	0	9	13	8	11	60				1·79	—0·92	0·96	9 21	0	4	3
Port Dover																2·39	—0·17	1·31	10 20	1	8	0
Port Burwell																3·01	—	1·15	6 21	0	1	0
Parry Sound				1	7	3	10	3	16	9	10	1	60				0·70	—2·26	0·13	10 20	0	3	0
Point Clark																0·60	—	0·40	2 28	0	1	1
Pelee Island																1·10	—0·57	0·45	3 27	0	0	0
Paris																1·94	—0·23	0·8	6 24	0	4	0
Peterboro																3·41	+0·66	2·25	7 23	0	5	0
Porcupine																—	—			0	0	0
Providence Bay																						
Rouville																3·05		0·96	9 21	0	0	0
Renfrew																3·45	+0·61	1·25	11 19	0	5	0
St. Catharines																2·22	—	1·47	4 26	0	0	0
Stonecliffe (Rockliffe)				1	0	11	0	0	0	9	0	39	60				4·20	+0·83	1·18	10 20	0	0	2
Southampton				10	1	13	5	11	6	6	3	2	60				0·82	—1·47	0·17	8 22	0	3	1
*Sarnia																						
Stratford																						
Stony Creek		5	6	1	23	22	0	1	11	30	2	0	90	II	IV	27 S W	2·49	—0·31	0·74	6 21	0	1	0
Schreiber																5·05	—	0·98	10 20	1	4	6
Shelburne																2·03	—	0·71	9 21	0	1	0
Toronto				3	1	22	0	5	9	14	3	3	60				1·53	—1·26	0·75	13 17	0	4	5
Uxbridge																1·67	—	0·46	9 21	0	0	0
Uplands				10	0	5	0	11	0	25	0	9	60				1·29	—2·19	0·34	7 23	0	3	0
Ursa																						
White River				9	4	6	3	6	2	8	3	19	60				4·31	—1·95	0·60	10 20	0	0	0
Woodstock	72	6	10	7	12	6	17	1	12	7	28	0	90	8 0	12 7	20 N W	2·90	—0·29	1·05	9 21	0	0	0
Welland																1·61	—1·29	0·90	5 25	0	0	0
Windsor																1·49	—3·18	0·42	9 21	0	0	0
Wallaceburg																2·11	—	1·33	9 21	0	1	0
QUEBEC—																						
Abitibi		6	5	23	1	9	4	23	1	18	11	0	90	III	V	—	1·77	—1·65	0·65	6 21	0	0	0
*Anticosti, E. Point				4	11	9	5	9	16	17	13	3	90				5·11		2·61	4 26	0	0	11
*Anticosti, W. Point				14	10	11	5	25	7	5	13	0	90				6·35	+3·61	2·03	10 20	0	0	7
Brome				18	1	11	1	22	10	23	4	0	90				5·00	+0·44	1·40	10 20	0	4	0
*Bicquet				4	30	3	0	0	0	35	3	15	90				4·15	+0·86	1·40	7 23	0	0	11
Clarke City				4									90										
*Cape Chatte				0	0	16	0	1	6	34	3	30	90				1·29	+1·06	1·80	5 20	0	0	7
*Cape Magdalen				4	2	6	7	9	5	7	26	21	90				4·33	+1·44	1·30	10 20	1	0	7
Chicoutimi		6	3	0	2	0	35	0	47	0	5	1	90	III	IX	11 S E	2·25	—1·16	0·58	10 20	1	1	0
Chicoutimi (2)																	—	—		0	1	0
Cap Rouge																4·12	—	0·97	13 17	0	0	0
Disraeli																3·80	—	0·87	8 22	0	2	1
Father Point				3	11	5	2	3	6	22	2	1	60				4·41	+1·27	1·24	10 20	1	0	4
Lake Edward																2·93	—	0·84	9 21	2	3	1
Montreal				4	3	6	5	6	7	25	1	0	60				4·62	+0·60	1·31	13 17	0	4	0

PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA, JUNE, 1911.

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

Station.	Latitude N.	Longitude W.	Elevation above sea level, in feet.	Pressure: Mean reduced.	Pressure: Highest.	Pressure: Lowest.	Pressure: Range.	Temperature: Mean.	Difference from average.	Years observed.	Highest.	Date.	Lowest.	Date.	Mean daily range.	Mean temperature of dewpoint.	Mean relative humidity.	Mean amount of cloud.	No. of days completely clouded.	Direction of wind from: N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Calm.	Total no. of observations.	Velocity of wind: Mean miles per hour.	Highest daily velocity.	[illegible]	Precipitation: [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Quebec—Concluded.																																								
Perkin's Mill	45 38	75 38																																						
Quebec	46 48	71 13	296	29·89	30·32	29·40	0·92	62·7	+ 1·5	36	85·2	28	40·8	3	20·3					0	21	0	8	2	14	5	9	1	6				3·76	−0·11	1·06	15	17	1	1	0
*Roberval	48 31	72 13	352																																					
St. Anne de Bellevue	45 27	73 59						61·6	—	5	86·8	28	43·0	3	19·5																		2·16		0·86	13	17	[illegible]	[illegible]	[illegible]
Shawinigan Falls	46 31	72 43						60·0	—	5	85·0	25	39·0	4	21·8																		1·92		0·93	12	1		5	0
Sherbrooke	45 32	72 5	620					61·8	—	9	82·5	29	39·9	3	29·7																		3·47		[illegible]	[illegible]	11		4	4
Shawbridge	45 54	71 3																																						
New Brunswick—																																								
Chatham	47 3	65 29	21	29·92	30·[illegible]	29·[illegible]	0·96	61·8	+ 2·0	36	83·0	9	37·5	4	20·5					5	3	16	5	0	12	9	9	1	60				[illegible]	[illegible]	1·26	15	15	[illegible]	2	[illegible]
Dalhousie	48 4	66 22	39					58·9	+ 2·1	37	82·0	27	35·0	23	18·5					0	0	17	0	0	[illegible]	9	2	2	3				[illegible]		[illegible]	7	2	0	[illegible]	0
Fredericton	45 57	66 36	164	29·92	30·30	29·47	0·92	60·2	0·3	38	84·0	9	37·8	25	22·6	...	71	7	6	5	2	12	8	15	12	15	20	1	90	7	18	0 2 NW	5·79	2·16	1·45	11	19	[illegible]	4	[illegible]
Grand Manan	44 47	66 46	19	29·92	30·35	29·47	0·88	57·6	+ 1·6	26	82·6	19	37·0	23	16·4					2	5	0	17	4	7	10	13	2	60				[illegible]	0·11	[illegible]	9	2	0	[illegible]	[illegible]
Moncton	46 9	64 45	50					59·4	+ 3·5	14	82·0	19	35·0	3-11	22·0	...				0	1	9	4	1	5	5		0	30				[illegible]	−0·21	[illegible]	11	19	0		0
*Point Lepreaux	45 4	66 28	30					52·1	+ 0·1	29	64·0	8-30	42·0	3	—	...		5	9	6	0	21	6	5	13	15	9	0	78	11	18	2 4	3·68	0·12	1·06	8	22	[illegible]	1	11
St. John	45 17	66 4	70	29·92	30·36	29·52	0·84	59·1	+ 3·2	37	81·3	30	41·3	3	16·0					7	2	8	5	22	3	1	4	8	60				[illegible]	0	0·86	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
St. Stephen	45 11	67 16	35					59·9	+ 1·3	14	86·0	9	35·0	6 25	25·0	...																	[illegible]	0·27	1·43	8	[illegible]	0		[illegible]
Sussex	45 38	65 38	69					60·9	+ 2·8	14	82·0	9 19	36·0	6	23·0	...				0	2	0	1	1	2	3	1	20	30				[illegible]	0·81	0·75	7	23	0	2	[illegible]
Nova Scotia—																																								
Antigonish	45 38	61 59	50					58·5		1	80·0	20-27	32·0	4	22·1	...																						[illegible]		0
Halifax	44 39	63 36	88	29·93	30·39	29·51	0·88	58·7	+ 1·1	36	81·4	19	37·1	5	18·7					3	7	7	6	13	10	5	7	2	60				2·95	−0·9[illegible]	1·08	11	16	[illegible]	2	8
Port Hastings	45 39	61 22	15					61·6	—	2	85·0	5 12	28·0	3	19·3	...				0	3	0	10	2	10	0	5	0	30				[illegible]	−1·51	[illegible]	5	25			[illegible]
Parrsboro'	45 23	64 19	40					57·7	+ 2·4	15	79·0	18	35·0	1-11	21·9	...																	[illegible]	[illegible]	0·77	6	21	[illegible]	0	0
Sydney	46 10	60 10	35	29·95	30·39	29·50	0·89	57·6	+ 2·9	37	80·0	26	38·0	6	19·2	...				5	86	0	4	6	17	8	9	6	60				[illegible]	[illegible]	[illegible]	15	15	0		2
*Sable Island, E. Point	43 58	59 16	25					54·0	+ 3·6	27	67·0	7 15	42·0	11	—					3	7	0	30	0	21	0	20	0	90				2·82	0·11	1·00	4	[illegible]	[illegible]	0	16
Truro	45 22	63 18	77					59·0	+ 1·3	38	82·4	9	30·6	4	23·0	...		7	1	6		3	11	21	7	11	16	4	90				3·04	[illegible]	0·71	13	17	[illegible]		[illegible]
Windsor	44 59	64 6	90					59·0	—	8	82·0	20	31·5	12	20·1																		[illegible]		1·78	11	29	[illegible]	1	0
*Whitehead	45 15	61 8	20					52·4	+ 3·0	27	68·0	29	40·0	3	—					5	3	7	14	20	21	9	11	0	90				1·29	[illegible]	[illegible]	[illegible]	27	[illegible]	0	12
*a*Wolfville	45 7	64 2[illegible]		29·85	30·27	29·45	0·82	60·1	+ 1·8	12	81·0	19	37·0	4	20·3					3	1	4	4	3	5	23	9	8	60				1·94		0·47	7	23	0	1	0
Yarmouth	43 50	66 2	65	29·91	30·33	29·58	0·75	58·4	+ 3·1	30	79·3	30	39·5	5	16·1					3	4	12	1	12	7	10	9	3	60				[illegible]	1	[illegible]	11	16	0	3	9
P. E. Island—																																								
Charlottetown	46 14	63 10	38	29·93	30·39	29·48	0·91	58·4	+ 0·4	35	80·0	19 26	36·0	4	15·6					3	7	4	5	19	4	10	1	1	60				2·91	+0·27	0·82	12	18	0	1	0
Charlottetown (2)	46 14	63 7	75					58·6	—	1	79·0	19	31·5	4	16·8	...																	2·91		0·75	12	18	4	0	0
Hamilton	46 25	63 18						*59·5	+ 2·0	14	79·0	30	36·0	4	13·1	...				1	2	0	2	5	13	3	1	0	30				[illegible]	−0·60	0·62	8	22	0	0	0
Newfoundland—																																								
*Amour Point	51 28	56 51						40·5	—	19	58·0	30	31·0	9		...	...	...	...	3	3	19	6	0	1	22	14	0	90				2·50		0·80	4	26	0		16
Burin	47 0	55 10	27																																					
*Cape Norman	51 38	55 52						37·4	− 3·7	27	48·0	22	32·0	3		...	...	...	...	0	13	34	9	2	0	20	3	0	90				1·02	−1·20	0·40	6	24	0	0	14
Fogo	49 43	54 17	30	29·95	30·34	29·42	0·92	48·0		1	78·0	30	[illegible]	4	12·6	...	...	...	...	8	5	1	7	13	8	14	1	2	60				1·21	—	0·82	19	11	0	1	6
*Point Rich	50 42	57 25	35					49·2	+ 2·4	27	70·0	15	37·0	2 3						1	32	2	11	4	15	22	3	0	90				[illegible]	0·60	1·12	9	21	0	0	3
Port aux Basque	47 35	59 10	27	29·93	30·37	29·41	0·96	48·9		3	63·5	9	32·5	1	11·3	...	...	...	...	2	1	24	3	0	4	14	11	1	60				[illegible]		[illegible]	17	1	0	0	8
St. John's	47 34	52 42	125	29·92	30·33	29·38	0·95	52·6	+ 2·9	38	78·0	9 29	32·0	5	17·7	...	...	...	...	6	5	9	7	8	29	2	3	0	60				[illegible]	0·24	1·48	13	17	0	1	2
Bermuda—																																								
Prospect	32 17	64 16	151	30·11	30·35	29·89	0·46	73·9	− 0·9	19	82·0	25	65·6	3 21	9·3	...	...	...	...	0	2	0	1	13	34	5	3	2	60				6·11	[illegible]	1·56	13	17	4	8	0

PRECIPITATION AT STATIONS REPORTING RAIN, SNOW, WEATHER, &c., DURING JUNE, 1911.

STATIONS.	TEMPERATURE.					PRECIPITATION.				REMARKS
	Amount in inches	No. of Days 70 or over	No. of Fair Days	Heaviest Fall in Month	Date	Amount in inches	No. of Days.	Heaviest Fall in Month	Date.	
BRITISH COLUMBIA—										
Alkali Lake	0·63	3	27	0·23	29					
Annis	1·14	10	20	0·36	30					Thunder on 13, 21, 22.
Beaver Lake	0·77	5	25	0·25	24					
Coquitlam	1·76	7	23	0·55	9					
Denman's Island	0·41	2	28	0·36	26					
Ferguson	3·18	7	23	0·80	21					Thunder on 21.
Goldstream Lake	1·03	5	25	0·32	9–26					
Hornby Island	0·72	6	24	0·32	25					
Hydraulic	3·92	11	16	1·15	29					
Jordan River	1·27	6	21	0·69	10					
Jordan River (Bear Creek)	2·06	4	26	1·02	11					
LittleQualicum (French Creek, V.I.)	1·50	2	28	0·25	10–28					
Monte Creek	0·09	1	29	0·09	30					
Naas Harbour	3·12	11	19	0·72	8					
Skidegate	1·69	12	18	0·31	26					
Shawnigan Lake	0·72	8	22	0·25	26					
ALBERTA—										
Bardo	3·90	11	19	1·10	30					Thunder on 2.
Bismark	5·85	13	17	1·13	24					Thunder on 2, 3, 16, 18.
Bruederheim	1·37	16	14	0·96	3					
Bittern Lake	3·88	11	19	1·07	21					
Brooks	6·24	14	16	1·97	25					Thunder on 1, 2.
Campsie	4·56	18	12	1·35	29					Thunder on 1, 2, 21, 23.
Caldwell	6·21	8	22	1·46	21					
Dorenlee	1·26	11	19	1·50	29					Thunder on 1, 2, 6, 13, 14, 16, 17, 18, 20, 27.
Dunstable	5·75	19	11	1·39	28					
Grassy Lake	1·75	5	25	0·60	23					
Jumping Pound	3·55	9	21	1·59	24					Thunder on 17.
Lacombe	4·67	4	26	1·51	30					Thunder on 3, 5, 12, 13, 15, 22, 21, 29, 30.
Loch Sloy	6·34	11	19	3·78	14					
Lyodon	1·18	9	21	0·24	25–27					
Lineham	2·50	2	28	1·50	28					
Macleod	4·06	8	22	1·77	24					Thunder on 21, 29.
Maycroft	1·42	15	15	0·48	30					
Mayton										Thunder on 12, 13, 14, 21, 27
Okotoks	3·35	10	20	0·75	28					Thunder on 13.
Pekisko	2·68	9	21	0·61	24					
Ponoka	3·90	5	25	2·40	30					Thunder on 2 12,13,14,21,28,29
Priddis	3·49	11	19	0·80	24					Thunder on 12.
Playle Creek	1·77	8	22	0·75	24					Aurora on 3, 4, 5, 6, 7, 8, 9, 10, 12, 15, 16, 17, 19, 20, 23, 24.
Sion	7·60	21	9	1·03	22					Thunder on 2, 3, 6, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 28, 29, 30.
Seven Persons	5·08	7	23	1·35	30					
SASKATCHEWAN—										
Carmichael	2·59	7	23	0·70	21					
Coulee										
Elm How										Thunder on 4, 19, 20, 23, 24.
Forks Swift Current (Gull Lake)	3·58	11	19	1·20	20					
Gull Lake	3·80	12	18	0·73	5					
Hanley										
Kindersley										
Kelvinhurst										
Last Mountain										Thunder on 19.
Maple Creek	3·91	11	16	0·82	82					
Meadow River	3·72	9	20	0·90	21					
Willow Creek										
MANITOBA—										
Cartwright	2·39	10	20	0·71	3					Thunder on 2, 3, 4, 7, 8, 10.
Deloraine	5·11	9	21	1·50	3–8					Thunder on 9. [20, 21, 24, 29.
Gretna	2·16	7	23	0·63	7					Thunder on 3, 10.
Norquay	2·25	8	22	1·12	8					
Rapid City	2·28	12	18	0·61	21					Thunder on 2, 3, 4, 7, 24, 25, 28.
Rosebank	1·67	9	21	2·80	8					
ONTARIO—										
Arden										Thunder on 6, 10, 27.
Deer Park	1·30	11	19	0·35	12					
Dutton	1·50	3	27	1·00	8					Thunder on 10, 11, 12, 19, 22.
Emsdale	1·51	12	18	0·55	23					
Goderich										Aurora on 30. Thunder on 1, 5, 9, 10, 11, 26, 27.
Georgetown	0·41	9	21	0·13	5–13					
Grantham	2·71	7	23	1·21	6					
Grand Valley	1·07	6	24	0·67	27					
MacCue	2·30	6	24	0·88	5					
Orangeville	0·71	3	27	0·29	10					
Princeton	1·53	4	26	0·99	4					
Sydenham	3·52	7	23	2·05	5					
Strathroy	1·73	6	24	1·16	4					
Watford	2·10	6	24	1·43	5					Thunder on 7, 20, 27.
Westport	2·11	5	25	1·47	5					Thunder on 10, 12.
Wooler	2·52	4	26	1·02	5					Thunder on 4, 11.
Westminster	1·81	3	27	1·42	5					
Wiarton										Thunder on 9, 10.
Wesley	2·22	9	21	1·13	2					
QUEBEC—										
Timiskaming	0·98	5	25	0·61	15					
Kepawa										Thunder on 11, 19.
Quinze Dam	1·19	6	21	2·16	11					
Lucerne										Thunder on 11.
Perkins Mills	2·60	10	20	0·51	15					
NEW BRUNSWICK—										Fog on 29.
Point Escuminac	1·95	8	22	1·03	14					
NOVA SCOTIA—										
Kentville	1·40	8	22	0·31	13					
Milton	2·47	6	24	0·73	14					
South Alton	2·24	7	23	0·50	1					
White Rock	1·45	8	22	0·50	1–16					
Liverpool (Indian Gardens)	3·9	8	22	0·13	21					

MEAN PROPORTION OF BRIGHT SUNSHINE REGISTERED IN EACH HOUR OF THE DAY IN THE MONTH OF JUNE, 1911.

STATIONS.	Hours Ending																		
	5 a. m.	6 a. m.	7 a. m.	8 a. m.	9 a. m.	10 a. m.	11 a. m.	Noon.	1 p. m.	2 p. m.	3 p. m.	4 p. m.	5 p. m.	6 p.m.	7 p. m.	8 p. m.		
Salmon Arm	18	62	67	70	72	71	73	70	61	69	70	76	71	61	52	19		
Victoria		02	29	52	59	61	61	63	69	73	71	73	7	7	32			
Nanaimo		01	11	52	53	58	62	66	73	72	68	61	63	67	50	01		
Vancouver	05	33	39	39	39	39	52	59	61	65	65	68	70	69	25			
Agassiz			18	30	11	41	17	47	52	56	51	52	55	53	20			
Tranquille	01	67	69	70	77	81	81	81	81	76	72	72	68	63	53	16		
Summerland	20	51	65	65	78	74	70	68	65	68	68	67	61	61	38			
Kamloops	09	57	62	68	77	8	77	84	79	73	75	78	68	62	53	10		
Edmonton	15	28	51	18	51	58	61	58	47	53	51	48	46	40	34	13		
Dunvegan	08	11	35	39	61	59	62	59	58	47	58	52	52	41	38	16		
Lethbridge	36	55	65	63	68	73	75	81	8	78	67	69	47	40	25			
Lacombe	11	17	55	69	61	65	72	80	71	51	51	53	51	43	32	17	02	
Medicine Hat	29	61	73	76	70	71	75	75	70	73	75	69	63	49	35	06		
Fort Vermilion		22	56	41	62	59	65	66	67	57	56	41	31	16	01			
Battleford		11	21	34	37	45	52	52	53	46	50	53	48	48	37	11		
Indian Head	07	46	49	50	56	54	56	49	57	59	55	54	54	56	49	14		
Moosejaw	33	45	50	47	41	52	57	57	63	61	62	78	52	61	58	23		
Scott	21	44	53	56	62	64	68	66	68	72	67	68	60	57	61	24		
Rosthern	01	27	39	45	48	53	64	73	73	68	69	70	67	63	56	12	01	
Brandon		13	38	48	51	58	58	57	61	61	58	53	45	38	14			
Winnipeg	07	44	51	56	61	61	51	54	52	57	51	52	49	51	40	12		
Haileybury	21	48	54	52	48	58	56	53	60	70	54	51	53	57	53	05		
Woodstock		22	4	52	56	55	56	60	63	63	64	68	67	64	51	10		
Lindsay		02	08	21	5	54	5	57	62	62	57	58	46	38	34			
Barrie		33	41	46	43	49	51	57	58	52	53	58	47	54	28	08		
Toronto		21	21	52	51	62	68	65	60	67	72	68	60	58	31	01		
Kingston	08	22	31	33	40	47	48	50	52	50	53	55	54	45	38	06		
Ottawa	08	30	47	50	58	59	57	54	62	63	67	59	58	54	42			
Montreal	01	32	47	61	65	62	63	69	75	68	66	58	32	33	T			
Quebec	01	21	42	46	52	51	61	58	61	67	61	63	56	58	54	03		
Sherbrooke	11	45	52	48	54	56	58	56	61	66	71	67	61	58	44	13		
Fredericton	05	24	44	42	49	54	59	55	56	46	54	47	40	38	31	12		
Charlottetown	01	32	47	54	54	5	48	54	56	52	54	58	52	50	3	01		

	Salmon Arm.	Victoria.	Nanaimo.	Vancouver.	Agassiz	Tranquille.	Summerland.	Kamloops.	Edmonton.	Dunvegan.	Lethbridge.	Lacombe.	Medicine Hat.	Ft. Vermilion.	Battleford.	Indian Head.	Moosejaw	Scott.	Rosthern.	Brandon.	Winnipeg.	Haileybury.	Woodstock.	Lindsay.	Barrie.	Toronto.	Kingston.	Ottawa.	Montreal.	Quebec.	Sherbrooke.	Fredericton.	Charlottetown.
Registered duration in hours	206	251	238	218	175	310	279	303	212	232	297	217	289	217	184	226	247	273	262	196	225	237	211	142	202	230	190	233	219	228	218	193	212
Percentage of possible duration	60	53	49	45	36	67	60	65	42	44	61	49	59	40	36	46	50	55	52	40	46	50	53	39	41	50	41	57	51	48	53	41	45
Difference from average		+11	+4		+6										9	+1				5	7		0	15	5	6	13	+11	+4	+2		+0	
Maximum percentage in one day	90	86	80	86	77	90	87	90	88	84	95	83	91	74	85	90	91	93	95	80	80	92	93	84	87	86	91	92	91	91	95	90	83
Date of maximum	20	19	7	18	12	18	18	16	15	3	10	17	18	26	20	11	11	11	11	12	7	2	16	29	17	19	24	17	21	24	23	7	7
No. of days completely clouded	2	2	1	1	6	1	2	2	4	1	0	3	0	2	2	1	1	0	2	2	4	1	2	3	3	1	8	3	1	2	3	6	4

Aurora recorded :—

Where the class of aurora is noted by the observer, it is given, (I), being the brightest, (IV) the feeblest in brilliancy.

1. Minnedosa I.
3. Sion.
4. Sion, Cape Magdalene, Quebec III, Lake Talon IV.
5. Sion.
6. Sion.
7. Sion.
8. Sion, Gravenhurst IV.
9. Sion, Oliver.
10. Sion, Hillsdown IV, Threehills Creek III, Wetaskiwin, Oliver, Glenbryan.
12. Sion, Threehills Creek III, Gravenhurst IV.
13. Threhills Creek IV, Aitkensville IV.
14. Lake Talon.
15. Sion.
16. Sion.
17. Sion.
19. Sion.
20. Sion, Schreiber, Kenora III, Lake Edward, Quebec IV, Haileybury IV.
23. Sion, Haileybury IV.
24. Sion.
27. Aweme IV.
28. Lake Edward, Quebec IV.
30. Georgetown III, Aweme III, Agincourt IV, Port Dover, Chicoutimi, Quebec IV, Father Point III, Barrie IV.

Thunder recorded :

1. Dunstable, Caldwell, Campsie, Athabasca Landing, Macleod, Threehills Creek, Waitefield, Quebec.

2. Sion, Dunstable, Caldwell, Bruederheim, Campsie, Bismark, Priddis, Cartwright, Rapid City, Eckville, Macleod, Athabasca Landing, Pakan, Threehills Creek, Waitefield, Hillview, Treherne, Port Dover, Spirit River.

3. Sion, Loch Sloy, Bruederheim, Gretna, Cartwright, Rapid City, Harmattan, Threehills Creek, Waitefield, Hillview, Aweme, Almasippi, Treherne, Quebec, Fort Vermilion.

4 Cartwright, Rapid City, Georgetown, Westminster, Ninga, Oakbank, Stony Creek, Wallaceburg, Port Dover, Point Clark, Lucknow, Hamilton, Brantford, Birnam, Gull Lake, Yarbo, Muenster, Cannington Manor, Glenbryan, Pense, Chaplin, Quill Lake, London, Fredericton, Princeton, Ont., Crescent Lake, Rossland, Clinton.

5. Loch Sloy, Georgetown, Eckville, Harmattan, Carbery, Morden, Almasippi, Treherne, Agincourt, Paris, Port Burwell, Birnam, Aurora, East Toronto, Sussex, Yarbo, Minnedosa, Port Stanley, Toronto, Wolfville.

6. Sion, Dunstable, Deer Park, Crescent Lake.

7. Cartwright, Rapid City, Westport, Hillview, Aweme, Almasippi, Treherne, Regina, Pense, Grand Forks, Hope, Wilmer.

8. Cartwright, Brandon, Hillview, Morden, Aweme, Almasippi, Treherne, Agincourt, Kakabeka Falls, Haliburton, Yarbo, Cannington Manor, Minnedosa, Crescent Lake.

9. Wesley, Georgetown, Paris, Port Dover, Owen Sound, Midland Lucknow, Kakabeka Falls, Brantford, Bruce Mines, East Toronto, Muenster, Bella Coola, Minnedosa, Southampton, Parry Sound, Port Arthur, Gravenhurst, Deloraine, Barrie.

10. Cartwright, Wesley, Wooler, Georgetown, Emsdale, Deer Park, Aitkensville, Carberry, Almasippi, Agincourt, Renfrew, Madoc, Midland, Lakefield, Lucknow, Kakabeka Falls, Haliburton, Brantford, Aurora, Bruce Mines, Bloomfield, Collingwood, Winnipeg, Minnedosa, Southampton, Parry Sound, Ottawa, Kingston, Toronto, Lindsay, Gravenhurst, Barrie, Crescent Lake, Peterboro' Lake Talon, Clinton.

11. Georgetown, Emsdale, Westminster, Deer Park, Perkins Mills, Quinze Dam, Hillsdown, Threehills Creek, Agincourt, Beatrice, Stony Creek, Port Dover, Montreal River, Madoc, Midland, Lakefield, Lucknow, Haliburton, Brantford, Birnam, Aurora, Bruce Mines, Bancroft, Collingwood, Brome, Shawinigan Falls, Alix, Princeton, Okanagan Mission, Chilcotin, Boswell Southampton, Parry Sound, Ottawa, Port Stanley, Kingston, Toronto, Montreal, Haileybury, Lindsay, London, Gravenhurst, Delia, Cranbrook, Wilmer, Fort St. James, Shelburne, Peterboro', Lake Talon, Clinton.

12. Loch Sloy, Okotoks, Playle Creek, Priddis, Wooler, Emsdale, Harmattan, Lacombe, Halkirk, Macleod, Threehills Creek, Beatrice, Renfrew, Paris, Port Dover, Orillia Matheson, Montague, Midland, Lucknow, Haliburton, Brantford, Birnam, Aurora, East Toronto, Bloomfield, Collingwood, Muenster, Nelson, Grand Forks, Tobacco Plains, Fruitvale, Salmon Arm, Okanagan Mission, Ottawa, Port Stanley, Kingston, Toronto, Montreal, Lindsay, Gravenhurst, Barrie, Peterboro, Lake Talon.

13. Sion, Dunstable, Pekisko, Okotoks, Priddis, Blairmore, Harmattan, Macleod, Renfrew, Midland, Haliburton, Nelson, Shawinigan Falls, Lake Edward, Point Lepreaux, Annis, Rathmullen, Lloydminster, Lost River, Grand Forks, Summerland, Tobacco Plains, Hadley, Revelstoke, Salmon Arm, Okanagan Mission, Chilcotin, St John, N.B., Yarmouth, Haileybury, Crescent Lake, Gleichen, Peterboro.

14. Sion, Dunstable, Loch Sloy, Okotoks, Priddis, Hillsdown, Athabasca Landing, Halkirk, Pakan, Threehills Creek, Waitefield, Prince, Matheson, Shawinigan Falls, Antigonish, Alix, Rathmullen Boutin, Glenbryan, Chaplin, Chilcotin, Yarmouth, Grand Manan, Crescent Lake, Delia.

15. Sion, Harmattan, Waitefield, St. Stephen, Lost River, Grand Forks, Sydney, St John, N.B., Ottawa, Spirit River.

16. Sion, Dunstable, Bruederheim, Eckville, Halkirk, Pakan, Threehills Creek, Wetaskiwin, Waitefield, Peace River Crossing, Boutin, Lloydminster, Sydney, Delia, Spirit River.

17. Sion, Dunstable, Lacombe, Pakan, Waitefield, Shawinigan Falls, Peace River Crossing, Boutin, Lloydminster, Chaplin, Quebec, St. John's, Nfd., Truro, Spirit River, Fort St. James.

18. Sion, Dunstable, Bruederheim, Athabasca Landing, Pakan, Waitefield North Gower, Copper Cliff, Sherbrooke, St. Stephen, Chaplin, Yarbo, Lloydminster, St John, N.B., Chatham, N.B., Haileybury, Fredericton, Crescent Lake.

19. Sion, Emsdale, Quinze Dam, Hillsdown, Athabasca Landing Waitefield, Prince, Hillview, Oakbank, Schreiber, Renfrew, Chaplin, Matheson, Montague, Lucknow, Kakabeka Falls, Brome, D'Israeli, Point Lepreaux, Antigonish, St. Stephen, Gull Lake, Maple Creek, Alix, Rathmullen, Cannington Manor, Glenbryan, Pense, Maple Creek, Minnedosa, St. John, N.B., Ottawa, Port Arthur, Montreal, Grand Manan, Haileybury, Lake Talon.

20. Sion, Dunstable, Cartwright, Westport, Blairmore, Aitkensville, Almasippi, Oakbank, Matheson, Point Lepreaux, Windsor, N.S., Antigonish, Sussex, St. Stephen, Gull Lake, Rathmullen, Glenbryan, Maple Creek, Chaplin, Lost River, Chilcotin, Winnipeg, Halifax, St John, N.B., Grand Manan, Chatham, N.B., Fredericton, Crescent Lake.

21. Sion, Maycroft, Okotoks, Caldwell, Priddis, Cartwright, Eckville, Macleod, Threehills Creek, Waitefield, Prince, Bruce Mines Annis, Ferguson, Alix, Glenbryan, Nelson, Grand Forks, Golden, Tobacco Plains, Nicola Lake, Chilliwack, Hedley, Princeton, Okanagan Mission, Sydney, Charlottetown, Halifax, Delia, Gleichen, Wilmer, Fossland

22. Sion, Loch Sloy, Emsdale, Eckville, Hillsdown, Harmattan, Halkirk, Loveland, Wetaskiwin, Waitefield, Prince, Beatrice, Schreiber, Port Dover, Madoc, Kakabeka Falls, Haliburton, Brantford, Birnam, Bloomfield, St Stephen, Annis, Alix, Rathmullen, Lloydminster, Chaplin, Summerland, Golden, Chilcotin, Ottawa, Gravenhurst, Cranbrook.

23. Sion, Caldwell, Harmattan, Halkirk, Macleod, Threehills Creek, Waitefield, Prince, Schreiber, Matheson, Madoc, Midland, Lucknow, Kakabeka Falls, Birnam, Bruce Mines, Point Lepreaux, St Stephen, Gull Lake, Esterhazy, Rathmullen, Lloydminster, Glenbryan, Maple Creek, Chaplin, Golden, Tobacco Plains, Southampton, St. John, N.B., Port Arthur, Grand Manan, Truro, Fredericton, Delia, Gleichen.

24. Loch Sloy, Cartwright, Rapid City, Waitefield, Brandon, Almasippi, Oakbank Schreiber, Birnam, Gull Lake, Peace River Crossing, Muenster, Cannington Manor, Glenbryan, Pense, Maple Creek, Chaplin, Port Stanley, Port Arthur, Crescent Lake, Delia, Cranbrook.

25. Rapid City, Port Dover, Matheson, Muenster, Chaplin, Winnipeg, Crescent Lake, Cranbrook.

26. Georgetown, Macleod, Port Dover, Owen Sound, Haliburton, Birnam, Shawinigan Falls, Minnedosa, Kingston, Barrie.

27. Dunstable, Okotoks, Westport, Georgetown, Deer Park, Threehills Creek, Waitefield Agincourt, Beatrice, Renfrew, Paris, Montague, Montreal River, Madoc, Midland, Lakefield, Lucknow, Haliburton, Hamilton, Brantford, East Toronto, Brome, Lake Edward, Chaplin, Okanagan Mission, Quebec, Ottawa, Kingston, Toronto, Montreal, Haileybury, Lindsay, Gravenhurst, Rossland, Peterboro'.

28. Sion, Priddis, Rapid City, Loveland, Aitkensville, Morden, Chicontimi, Sherbrooke, Lake Edward, D'Israeli, Chaplin, Grand Forks, Quesnel, Chilcotin, Minnedosa, Berens River, Crescent Lake.

29. Sion, Maycroft, Loch Sloy, Priddis, Cartwright, Loveland, Hillview, Carberry, Morden, Almasippi, Oakland, Chaplin, Chicontimi East, Cannington Manor, Grand Forks, Winnipeg, Fredericton.

30. Sion, Loch Sloy, Gretna, Loveland, Schreiber, Kakabeka Falls, Bruce Mines, Muenster, Maple Creek, Chaplin, Quill Lake, Port Arthur, Crescent Lake.

FORECASTS FOR JUNE, 1911.

The forecasts issued by this office at 11 p.m. each night are posted up at every telegraph station in Canada, and are for the 24 hours beginning at 8 a.m. the following day.

The number of these predictions issued during the month was 1215. These were divided as follows :—

District.	No. Issued.	Verified.			
		No. Fully	No. Partly	No. Not	Per-centage.
Alberta	73	58	13	2	88·4
Saskatchewan	82	55	20	7	79·3
Manitoba	80	58	12	10	80·0
Lake Superior	105	66	24	15	74·3
Lower Lake Region	117	91	21	5	86·8
Georgian Bay	115	93	16	6	87·8
Ottawa Valley	107	73	28	6	81·3
Upper St. Lawrence	107	82	21	4	86·4
Lower St. Lawrence	110	87	19	4	87·7
Gulf	111	88	19	4	87·8
Maritime Provinces West	104	79	20	5	85·6
Maritime Provinces East	104	71	26	7	80·8
Total	1215	901	239	75	84·0

In order to obtain the percentage of verification of the predictions, the number partly verified is divided by two and added to the number fully verified, and the result divided by the total number issued.

In ascertaining to what extent the predictions have been verified, the reports from the agents at all observing stations, as well as the telegraphic reports, are used.

R. F. STUPART, Director.

Meteorological Office, Toronto.
July 26, 1911.

DEPARTMENT OF MARINE AND FISHERIES, CANADA.

METEOROLOGICAL SERVICE.

Monthly Weather Review.

VOL. XXXV. JULY, 1911. No. 7.

INTRODUCTION.

In compiling the present Review the principal data made use of are the telegraphic reports of observations received at this office for the purpose of weather forecasting, and reports by mail from voluntary observers and storm signal agents. For the data used in tracing the paths of areas of high and low pressure in the United States, we are indebted to the Chief of the Weather Bureau, Washington, D.C.

GENERAL SYNOPSIS.

In the southern interior of British Columbia there were several very warm days. On the 13th, 14th, 15th, 16th, 24th, 25th and 28th, temperatures exceeded 90° and, at a few points, 100°; while on the majority of the remaining days the maxima exceeded 80°. At Alberni in the interior of Vancouver Island higher than 100° was recorded on the 14th, 15th, 16th and 24th. In the southern portion of the Island, however, no such extreme heat was experienced. In the Cariboo district there were several days on which the temperature did not exceed 70° and seven nights during which the thermometer dropped to 40° or lower.

Showers occurred frequently during the first week in the Kootenays and in the Okanagan Valley, but the remainder of the month was very dry. There were but few districts in the province where the rainfall of the month was not considerably less than normal.

The month of July was quite cool and wet in Alberta and Sa-katchewan. The mean temperatures of the month were about 5° lower than the normal in eastern Alberta and in Saskatchewan, and about 2° lower in western Alberta, no really warm days occurring till the last week. Showers were of very frequent occurrence throughout the month and were often accompanied by high winds and hail. Frost sufficient to cover water with a thin film of ice occurred in latitude 52° on the 20th.

In Manitoba rain occurred on from eight to thirteen days, the total amount exceeding the normal except locally in the southeast. There were more warm days here than in Alberta or Saskatchewan. 90° was exceeded on a few days in the first and last weeks, but the mean temperatures were about 2° or 3° lower than the normal.

Heat of an intensity unprecedented in this province prevailed in Ontario during the first few days of July. In many places in the Peninsula the thermometer registered 100° or higher on four successive days. 109° was recorded at Stonecliff on the Ottawa River on the 2nd, and 103° at Chatham, Stony Creek, Renfrew and Toronto. The heat was greatest during the first six days, but continued very great until the 12th, from which day until the 24th mean daily temperatures fluctuated within a degree of the normal. From the 24th to the 28th the weather was several degrees cooler than normal with night temperatures below 50° and at a few places below 45°. During the last two days of the month very warm weather again prevailed throughout the province

In the southwestern counties of Ontario a drought prevailed during the first two weeks, but showers occurred several times during the remainder of the month. Local thunderstorms at the end of the first week relieved the drought somewhat in central and eastern Ontario, while showers occurred on an average of nine days during the last two weeks. The total rainfall of the month was nearly everywhere in the province less than the normal.

During the first twelve days the weather was very warm in western Quebec and along the Middle St. Lawrence, while in the Gulf counties there were fewer days of oppressive heat. Thunderstorms occurred very frequently in some districts, notably at Chicoutimi West where there were thirteen. Some of these were accompanied by violent winds which caused much damage. The total rainfall measured a little less than the normal except in the Gulf counties, where local excess was in every instance due to heavy downpour accompanying a single thunderstorm, and affecting a small area.

In southwestern New Brunswick, Prince Edward Island, and all Nova Scotia except Cape Breton Island, the rainfall of the Maritime Provinces was less than the normal, although well distributed throughout the month. There were many days of high temperature, 90° having been exceeded on from three to six days at points in the interior. The mean temperatures of the month were everywhere four degrees higher than the normal.

ATMOSPHERIC PRESSURE.

The mean atmospheric pressure for July was subnormal over Manitoba and the northern districts of Ontario and Quebec, also locally in the Central Valleys of British Columbia; the largest negative departures occurring north of Lake Superior. Positive departures were pronounced in Alberta, where there was a difference of 0·14 of an inch at Edmonton and 0·10 of an inch at Calgary. In other parts of the Dominion where the value was above average the amount of divergence was small.

HIGH AREAS.

Anti-cyclonic activity during July was marked over the western parts of the Continent, while east of the Lake Region the usual summer type prevailed. Areas of high barometric pressure were, as a rule, first observed over the Pacific States and British Columbia, and passed into the Western States and Provinces as fairly pronounced systems, thence drifting eastward with diminishing energy.

The courses of areas which were sufficiently well defined for the purpose were charted, to the number of six, in all.

LOW AREAS.

The cyclonic systems of the month were generally of the summer type, but one area which crossed the Continent between the 21st and 26th was accompanied in the Lake Region by a storm of violence exceptional for the season of the year.

Most of the areas were first observed over Western Canada and moved eastward, north of the Lake Region to the Gulf of St. Lawrence; some few moved southeast to the Western States, and then recurved northeast to the Gulf of St. Lawrence. One area, apparently of West India origin, passed up the Atlantic Coast and over the Maritime Provinces during the 27th, 28th and 29th.

During the early part of the month an intense heat wave swept over Ontario and Quebec, accompanying the passage of a moderate depression which was drifting slowly eastward north of the Lake Region.

The paths of ten areas were charted, and in addition some local movements were noted in the Pacific Coast Region.

TEMPERATURE.

In Vancouver Island, the Kootenays, and the Okanagan Valley the mean temperature of the month was between 1° and 2° above normal, but in the Cariboo region and in the northern districts of British Columbia generally there was a deficiency.

Mean temperatures were about 2° less than the normal in northwestern Alberta, and elsewhere in the same province and in Saskatchewan were 3° to 6° less. From Manitoba a deficiency of 2° was reported.

The exceptional heat of the early days of the month in Ontario was counterbalanced by cool weather in the third week, and resulting mean temperatures were not more than 3° above normal. In Quebec the excess over normal was about 3° and in the Maritime Provinces 4°.

The highest and lowest temperatures recorded in each Province during the month of July, 1911, were:

	HIGHEST.	LOWEST.
British Columbia,	103° at Alberni on the 14th	28° at Wilmer on the 5th.
Alberta,	95° at Lawrence on the 25th and at Medicine Hat on the 25th & 26th	28° at Blairmore on the 5th.
Saskatchewan	93° at Kelvinhurst on the 29th	32° at Scott Lake on the 12th.
Manitoba,	98° at Aweme on the 7th	35° at Pierson on the 27th.
Ontario,	109° at Stonecliff on the 2nd	32° at Matheson on the 17th.
Quebec	98° at St. Anne de Bellevue on the 3rd and at Shawinigan Falls on the 9th	40° at Abitibi on the 29th.
New Brunswick,	95° at Fredericton and Chatham on the 6th	45° at Sussex on the 8th.
Nova Scotia,	95° at Wolfville on the 6th	42° at Port Hastings on the 6th and 18th.
P. E. Island,	88° at Charlottetown on the 6th	52° at Charlottetown on the 8th.

PRECIPITATION.

The rainfall was less than the normal over the greater part of British Columbia, but in Alberta, Saskatchewan and Manitoba it was for the most part considerably in excess. Locally, however, there were small deficiences, as in the neighbourhood of Prince Albert and of Moosomin. There was a pronounced deficiency in Ontario and Quebec, although an excess occurred over several small areas, due in every case to a heavy rain accompanying a single thunderstorm. In the Maritime Provinces excess was confined to northern New Brunswick and Cape Breton Island.

WINDS, JULY, 1911.

PROVINCES AND STATIONS.	Total Mileage.	Greatest Mileage in 24 hours.	Greatest Mileage in one hour.	Number of Gales.	Number of Strong Winds.	Number of Fresh Winds.	General Direction.
British Columbia.							
Victoria	5160	437	29	.....	7	8	S.W.
Point Garry	6938	427	25	.....	11	12	
Triangle Island	7114	478	30	1	..	.....	
Alberta.							
Banff (Sulphur Mt.)	10576	595	38	4	12	12	S.W.
Calgary	5127	369	25	.....	3	7	W.
Edmonton	4736	315	19	.....	1	7	W.
Saskatchewan.							
Prince Albert	3957	272	19	.....	.....	6	S.W.
Swift Current	7312	459	34	1	9	11	S.W. W. N.W.
Qu'Appelle	4290	446	19	.....	1	2	
Manitoba.							
Winnipeg	9516	504	30	2	13	11	Variable.
Ontario.							
Port Arthur	7438	458	32	1	11	8	W.
Parry Sound	5184	434	25	.....	1	7	S.W.
Southampton	4742	272	25	.....	1	6	S.
Woodstock	5735	573	30	1	3	11	S.W.
Guelph	6413	541	.....	.....	.....	.....	N.W.
Toronto	6545	617	32	3	4	7	S.W.
Quebec.							
Quebec	7797	461	34	3	8	9	S.W.
Father Point	8208	687	39	6	9	5	W.
Anticosti	8382	450	31	2	12	7	S.E.
Maritime Provinces.							
St. John	5851	513	34	1	6	7	S.
Pt. Lepreaux	6801	680	38	3	4	5	S.W.
Halifax	6964	492	33	2	6	8	W.
Flat Point	7743	598	28	.....	11	11	S.W.
Charlottetown	5469	332	21	.....	3	6	W.
Keewatin.							
The Pas	7090	528	30	2	3	10	N.N.W.

PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA. JULY, 1911.

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

STATION.	Latitude N.	Longitude W.	Elevation above sea level, in feet.	Pressure: Mean reduced.	Pressure: Highest.	Pressure: Lowest.	Pressure: Range.	Temperature: Mean.	Temperature: Difference from average.	Temperature: Years observ'n.	Temperature: Highest.	Temperature: Date.	Temperature: Lowest.	Temperature: Date.	Temperature: Mean daily range.	Mean temperature of dew point.	Mean relative humidity.	Mean amount of cloud.	No. of days completely clouded.	Wind from N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.	Total number of observations.	Velocity of wind: Mean miles per hour.	Highest day's velocity.	Date and direction from.	Precipitation: Amount.	Difference from average.	Heaviest fall in month.	Days with .01 or more.	No. of [illegible]	No. of [illegible]	No. of [illegible]	No. of fogs.
BRITISH COLUMBIA				in.	in.	in.	in.																																	
Alberni (Beaver Creek)	49 15	124 49	300					61.9	+0.6	16	[illegible]	11	40.0	11	37.4																		0.18	−0.78	0.09	1	27	0	0	0
Agassiz	49 14	121 31	52					66.0	+1.1	17	94.0	15 21	42.0	5	25.7																		1.12	−1.00	0.42	3	28	0	0	0
Atlin	59 35	133 38	2240	30.12	30.53	29.80	0.73	52.8		5	76.5	31	31.0	10 12	23.3			6	2	1	0	0	6	39	1	3	3	9	62	4.3	16.0	29 S	0.41		0.12	11	20	0	0	0
Barkerville	53 2	121 35	4180	30.01	30.40	29.73	0.67	52.7	−1.8	23	78.0	24	32.0	12	22.2		76	5	1	0	1	0	1	0	8	0	1	51	62	1.5	20.0	25 SW	2.12	0.90	0.40	9	22	0	0	0
Bella Coola	52 40	126 51	150					61.5	0.8	11	94.0	16	38.0	12	28.0																		0.93	−0.88	0.29	9	22	0	0	0
Chilcotin (Big Creek)	51 40	123 0	3100					59.1		8	91.0	15 21	31.0	12 26	31.2																		0.33	—	0.28	2	29	0	2	0
Cranbrook	49 30	115 50						61.4		3	94.0	17 25	32.0	5 7	33																		0.10		0.10	1	30	0	0	0
Clayoquot	49 11	125 47	10					58.7	+0.6	12	81.5	17	44.0	10	21.7																		1.17	0.90	0.49	4	27	0	0	0
Cowichan (Tzouhalem)	48 25	123 42	170					63.3	—	7	92.0	15	44.0	11	25.9																		0.11		0.11	1	30	0	0	0
Chilliwack	49 10	121 57	21					61.1	−0.8	11	93.0	17	44.0	4 11	21.0																		1.29	—	0.53	7	21	0	0	2
Enderby	50 32	119 7	1180					65.6		3	96.0	25	38.0	5	33.0																		2.46		0.72	7	21	0	0	0
Fort St. James (Stuart's Lake)	54 28	124 12	2280					55.8	0.4	13	80.0	16	30.5	12	25.9																		1.13	0.22	0.45	7	21	0	3	0
Fairview	49 11	119 36								2																														
Fruitvale	49 9	117 31						62.9		2	96.0	25	35.0	5 17	37.8																		0.80		0.41	7	21	0	0	0
Glacier	51 14	117 29	4072					56.1	−1.8	15	84.0	28	34.0	5	26.0																		3.47	2.32	0.40	9	22	0	0	0
Golden	51 16	116 55	2550					59.6	−2.2	10	90.0	25	35.4	12	28.7																		1.25	—	0.43	5	26	0	1	0
Grand Forks	49 2	118 27						67.5		1	100	25	43.0	5 12	31.5																		0.45	—	0.29	5	20	0	1	0
Greenwood	49 5	118 49								1																														
Holberg	50 39	128 18						57.8		3	82.4	17	45.4	12	13.9																		1.30		0.60	1	27	0	0	0
Hedley	49 35	120 10						68.6		6	99.0	15	47.0	4 11	28.3																		0.32		0.14	4	26	0	0	0
Hedley (Nickel Plate)								50.5		7	82.0	16	27.0	11	25.5																		0.51	—	0.20	3	28	0	0	0
Hope	49 23	121 25						66.9		2	91.5	11 15	47.5	11	21.1																		0.45		0.19	7	24	0	1	0
Ikeda Bay	52 17	131 7	5					57.6		1	68.0	19 21	43.0	9 11	7.9																		3.23		1.79	5	26	0	0	0
Kamloops	50 41	120 30	1215	29.91	30.40	29.62	0.78	70.0	+0.3	18	99.[illegible]	15	47.0	12	28.8		57	5	1	2	5	6	8	5	0	23	4	9	62	1.6	14.0	15 W	0.78	−0.18	0.21	4	24	0	0	0
Ladner	49 5	123 4						63.5	+2.2	10	84.0	16	44.0	10	19.4																		0.90	−0.19	0.40	[illegible]	[illegible]	0	0	0
Massett, Q.C.I	53 58	132 9	30					56.8	−1.5	11	77.0	19	46.0	11 25	14.6																		2.11	−0.68	[illegible]	13	18	0	0	0
a Nanaimo	49 10	123 37	125	29.95	30.26	29.66	0.60	64.7	+1.7	11	92.7	15	47.1	5	20.0		75	2	1	0	2	0	6	0	2	0	33	19	62	9.4	35.0	13 NW	0.01	−0.75	0.01	1	31	0	0	1
Nicola Lake	50 9	120 30	2120					63.3	+1.2	16	92.0	16	42.0	4	27.3																		0.28	1.18	0.20	5	26	0	1	0
North Nicomen	49 12	122 2	50					65.0	+1.4	9	92.0	15 17	45.0	12	23.7																		1.61	[illegible]	0.76	8	25	0	0	0
New Westminster	49 13	122 54	330					64.0	+0.9	21	90.4	17	45.8	4	21.7																		0.03	[illegible]	0.27	[illegible]	26	0	0	0
Nelson	49 29	117 21	1760					66.3		9	93.0	25	44.0	12	26.5																		0.62		[illegible]	[illegible]	28	0	2	0
Needles	49 40	118 9						61.7		3	89.0	25	37.0	4	28.8																		[illegible]		0.60	2	29	0	0	1
Okanagan Mission (Kelowna)	49 52	119 29	1200					66.9	+1.8	13	95.5	16	42.0	12	25.4																		0.39	−0.7[illegible]	0.22	5	26	0	1	0
Princeton	49 29	120 29	1640					63.6	+0.7	17	98.0	15	37.4	12																			0.65	−0.40	[illegible]	3	28	0	2	0
*Penticton	49 29	119 35						66.3		5	95.0	25	44.0	4																			0.35		0.18	4	[illegible]	0	0	0
Pemberton Hatchery	50 20	122 33						65.3		4	98.0	16	44.0	12	33.4																		0.29	—	0.17	2	[illegible]	0	0	0
Prince Rupert	54 18	130 18	170	30.12	30.45	29.78	0.67	56.4	—	3	83.0	17	40.0	4	12.8		77	7	15	3	0	5	1	15	10	4	2	22	62	3.1	16.0	23 E	6.04	—	2.00	14	17	0	0	4
Quesnelle	52 59	122 30	1700					61.5	2.6	16	93.0	16 25	36.0	12	31.2																		1.84	+0.38	0.50	8	23	0	1	0
Revelstoke	51 0	118 6	1176					61.0	1.2	14	91.0	16	38.0	5 17	33.6																		2.57	0.11	0.40	11	20	0	2	0
Rossland	49 5	117 48	3400					64.4		8	88.5	17	43.0	5	22.0																		1.10		0.42		26	0	2	0
Ruskin (Stave Falls)	49 16	122 24	125					67.3	—	2	96.0	15-23	40.0	3	32.8																		1.97		0.96	4	27	0	0	0
Salmon Arm	50 42	119 35	1152					60.5	—	6	98.0	16-25	39.0	5	31.0																		1.70	—	0.50	9	22	0	3	0
Salmon Arm (Ex. Farm)								66.5		1	96.5	16-25	43.0	12	33.4																		1.84		0.52	6	25	0	0	0
Steveston (Garry Point)	49 21	123 17						61.6	+1.2	16	82.0	15	44.0	4	17.6																		0.54	0.38	0.42	4	27	0	0	0
Swanson Bay	53 37	128 53						59.2		3	85.0	15	45.0	2 11	16.4																		4.01		1.20	11	20	0	0	0
Salt Spring Island	48 50	123 29								2																														
Summerland	49 37	119 0	1100					68.7		5	96.0	16	46.0	12	26.3																		0.54	—	0.16	3	28	0	1	0
Sooke	48 14	123 44	25					58.8		1	87.0	17	40.0	4	22.9																		0.16	—	0.10	1	30	0	0	5
Stewart	56 4	130 1	215					58.3		1	87.0	17	44.0	13	22.7																		3.41		1.44	6	25	0	0	0
Tobacco Plains (Elko)	49 1	115 5	2681					65.6	+0.2	16	95.4	26	39.0	5	26.5																		0.87	0.88	0.22	6	25	0	3	0
Triangle Island	50 52	129 5	680							1																														
a Tranquille	50 44	120 29		28.77	29.16	28.17	0.69	69.7	—	3	100.0	16	45.0	12	30.2		65	3	2	8	12	2	1	1	7	11	17	0	62				0.42		0.20	5	26	0	2	0
Vernon (Coldstream Ranch)	50 14	119 15	1557					67.4	+0.8	18	97.0	16-25	43.0	4 12	30.6																		1.32	+0.11	[illegible]	7	21	0	0	0
Victoria	48 24	123 19	85	30.35	30.36	29.76	0.60	62.3	+1.5	19	89.5	16	44.7	4	22.4		65	4	2	5	2	2	2	9	30	2	3	7	62	8.3	27.0	6 SW	0.11	0.21	0.08	3	28	0	0	0
Vancouver	49 17	123 5	136	30.05	30.36	29.71	0.62	63.9	+1.1	11	90.2	15	45.9	11	19.7		72	3	2	3	0	3	7	2	3	13	11	20	62	3.4	12.0	11 SW	0.92	0.46	0.46	5	26	0	2	0
Winter Harbour	50 32	128 3						57.8	+0.7	16	83.0	17	44.0	20 21	19.5																		1.78	1.28	0.75	3	28	0	0	0
Wilmer	50 31	116 11						60.8	—	2	95.0	16	28.0	5	35.0																		0.70		0.34	4	27	0	0	0

YUKON :—																																							
Careross	60	11	134	34	2171																																		
Dawson	61	4	139	20	1200	30.15	30.79	29.82	0.97	60.2	—	9	83.0	3-5	37.0	21	27.9					8	3	1	1	1	1	0	6	41	62	1.37	—	0.35	9	22	0	0	0
White Horse	60	45	135	0	2075																																		
ALBERTA—																																							
Athabasca Landing	54	43	113	17	1650					57.9	—	9	83.0	24	31.0	21	21.6					0	2	4	1	2	2	16	4	0	31	2.30	—	0.48	9	22	0	1	0
Alix	52	24	113	10						57.3	—	7	83.0	25	38.0	5	20.6															4.14	—	0.95	16	15	0	2	2
Banff	51	10	115	31	1512	30.02	30.49	29.71	0.78	55.8	−1.1	16	86.2	25	30.5	5	28.6				4	3	10	4	2	0	26	2	2	16	62	1.38	−1.28	0.28	11	20	0	3	0
Blairmore	49	40	114	30	4225					55.8	—	2	87.2	25	27.7	5	32.2															1.38	—	0.75	7	24	0	1	0
Calgary	51	2	114	2	3389	29.97	30.40	29.50	0.90	56.8	−3.9	27	88.0	25	33.0	5	24.0				3	5	5	3	7	2	1	5	31	3	62	2.17	0.43	0.68	17	14	0	4	0
Cardston	49	12	113	18						59.4	—	7	89.0	14	34.0	26	32.2															2.82	—	0.78	6	25	0	0	0
Didsbury	51	40	114	8	3300					57.0	−5.1	10	86.0	25	36.0	12	22.8					1	1	5	1	2	1	9	10	1	31	2.63	−0.19	0.66	12	19	0	0	0
aDunvegan	55	56	118	35	1305							4																											
Daysland	55	52	1	2	17							1																											
Delia										56.6		1	81.4	25	31.5	12	23.0				23	8	3	3	6	11	6	1	17	0	55	2.57	—	0.70	12	19	0	6	3
Edmonton	53	33	113	30	2158	29.96	30.37	29.51	0.86	60.0	1.5	28	87.0	25	40.0	2	24.0				5	9	0	8	0	6	1	27	10	1	62	5.83	+2.08	0.82	20	11	0	7	0
Eckville	52	23	114	22						54.0		3	83.0	26	30.2	12-13	26.0															3.63	—	0.77	8	23	0	3	0
Endiang	52	0	112	0	2795					56.8		1	85.0	25	36.2	11	22.3															3.51		0.66	11	20	0	0	0
Fort Vermilion	58	27	116	3						58.7		6	80.0	24	32.2	20	27.6															1.81		0.42	9	22	0	8	0
Gleichen	50	59	112	54	2952					59.3		9	92.5	25	36.5	5	26.7															1.92		0.75	5	26	0	0	0
Gilt Edge	52	59	110	43						56.5	—	2	80.6	4	31.0	20	23.5															2.88		0.78	10	21	0	0	0
Hillsdown	52	11	113	29	2806					58.1	—	7	84.0	25	36.0	20	22.4															3.88		1.10	17	14	0	9	0
High River	50	35	113	53	3394					57.6	—	9	89.0	26	33.0	5	27.4															1.81		0.51	14	17	0	0	0
Harnattan	51	45	114	23	3500					53.3	—	4	84.0	26	30.0	5	26.6															2.93		0.69	19	12	0	7	0
Halkirk, (Emsburg)	52	17	112	10						56.4		2	85.0	25	36.0	20	23.0					4	8	3	8	3	9	13	14	0	62	1.16		0.68	18	13	0	8	0
Lethbridge	49	42	112	51	2961					61.5	−3.7	10	91.8	26	41.0	5	25.5															2.33	+0.60	1.19	10	21	0	0	0
Lethbridge (Exp. Farm)	49	43	112	51						60.1		4	92.5	25	37.9	5	27.2															2.27		1.05	11	20	0	0	0
Lacombe	52	58	113	44	2783					56.6	—	1	85.0	25	33.9	8	24.8															4.39		1.46	20	11	0	0	0
Lawrence	50	16	113	26						60.1	—	5	95.0	25	33.0	3-31	36.6															1.68		0.45	11	20	0	0	0
Lunnford	54	33	114	19						56.4	—	2	85.4	25	31.0	2	24.1															1.35		0.63	17	14	0	1	0
Loveland	52	30	111	59						58.1		2	88.0	25	32.0	20	24.6					0	4	2	7	3	6	8	15	0	15	2.45		0.55	12	19	0	8	0
Medicine Hat	50	1	110	37	2161	29.94	30.5	29.14	1.11	65.1	−3.0	27	95.0	25 26	42.0	13-20	28.6				2	6	3	3	4	4	4	15	12	11	62	1.65	0.22	0.84	14	17	0	6	0
Macleod	49	44	113	24	3128					61.2	−2.3	14	90.0	26	40.0	5	27.0															2.77	+1.86	1.30	12	19	0	4	0
Peace River Crossing	56	15	117	15						59.5	—	4	92.0	24	33.0	20	24.6															4.08		1.45	9	22	0	1	0
Pembina	54	12	114	0						56.9	—	3	83.0	26	32.5	20	23.7					2	4	0	4	1	10	21	15	5	62	2.74		0.59	14	17	0	0	0
Pakan (Victoria)	54	0	112	31						57.4	—	7	83.5	25	35.0	2	23.2					1	5	3	1	2	14	18	13	5	62	2.11		0.30	16	15	0	5	0
Pincher Creek	49	0	114	4	3750					58.6	−2.3	15	85.0	26	32.0	5	25.0															2.76	+0.01	1.05	12	19	0	12	0
Red Deer	52	16	113	49						55.9	−3.0	13	84.0	25	34.0	3	24.6					1	1	0	7	8	0	7	7	0	31	1.89		1.26	16	15	0	5	0
Spirit River	55	40	118	47						6.0		2	84.0	24	20.0	20	24.8															3.81		0.70	16	15	0	[illegible]	0
Sundial	50	6	112	31						60.1		1	92.0	25	40.0	30	27.2															2.03	—	0.65	10	21	0	0	0
Threehills Creek	51	30	113	11						56.9	—	9	81.0	25	35.0	12	25.0															3.32		0.86	12	19	2	7	0
Wetaskiwin	52	58	113	23	2480					57.3		9	85.0	26	36.0	20	20.8															1.19		0.25	12	19	1	4	0
Waitefield	53	29	111	38	2000					56.9	—	7	84.0	25	36.0	20	22.1					4	4	5	1	3	3	22	25	23	93	3.05		0.56	20	11	2	10	0
SASKATCHEWAN—																																							
Battleford	52	41	108	20	1620	29.93	30.38	29.50	0.88	59.2	−1.8	21	84.0	24	38.0	19	22.0		71			2	4	0	6	0	8	13	19	41	93	3.39	+1.28	1.19	14	17	0	0	0
Broadview	50	23	102	33	1960					58.7	—	7	92.0	1	34.0	17	28.5															2.00		1.10	6	2	0	[illegible]	0
Brownlee	50	45	106	0						58.5	—	2	83.0	14	36.6	21	25.6					3	0	2	1	4	2	14	4	1	31	2.43		0.77	12	19	0	0	0
Chaplin	50	26	106	39	2202					57.4	−7.0	26	84.0	6	35.0	23	25.5					0	6	0	1	0	3	1	20	0	31	2.05	0.20	0.49	16	15	1	11	0
Cannington Manor	49	43	102	2	2064																																		
Crescent Lake	50	59	102	25	1658					58.3		7	81.3	27	37.0	17	21.3					1	0	4	1	4	3	8	13	0	31	2.35		0.83	13	18	4	2	2
Cumberland House	53	56	102	16						63.4		1	90.0	26	34.0	1	19.0															3.95		1.02	8	23	0	0	0
Duck Lake	52	51	106	20																																			
Estovan	49	12	103	4	1858					61.4		8	88.0	3	43.0	10	24.0					3	1	0	1	7	4	4	7	4	31	2.60		1.26	6	25	1	3	0
East End	49	31	108	49																																			
File Hills	51	4	103	31																																			
Grenfell (Brownhill)	50	23	102	53	1957					58.0	−1.5	19	86.0	3	42.0	21-23	20.9															2.19	−0.46	0.76	8	23	0	0	0
Glenbryan (Larchmount.)	49	51	107	27						58.5	—	1	83.5	30	36.2	21	27.3					1	10	4	7	0	3	29	11	0	62	2.10	—	0.45	16	15	1	2	0
Humboldt	52	12	105	9						56.9	—	4	84.0	27	36.0	11	23.8															1.31		0.50	7	24	0	0	0
Hubbard (Drumague)	51	5	103	21						55.7	—	4	82.0	27	37.0	16	24.7															0.90		0.35	3	28	0	0	0
Indian Head	50	28	103	40	1924					59.0	−5.4	21	86.0	15	36.0	16	21.8					11	3	0	1	2	12	16	30	9	93	3.03	0.57	0.82	11	20	0	0	0
Kelvinhurst										59.9		1	93.0	20	31.0	11	35.5															0.94		0.32	5	26	0	0	0
Lloydminster	53	18	110	0						55.8	—	4	80.9	26	36.5	16	20.0															3.92		0.91	20	11	0	3	0
Lanigan	51	51	105	2																																			
Luseland	52	5	109	21						55.9	—	8	80.0	25	33.0	9	21.6															3.59		0.70	14	17	0	0	0
Lost River										56.8		1	85.0	27	38.0	3	22.4															1.29		0.39	10	21	0	1	0
Mooso Jaw	50	21	105	35	1759	29.89	30.36	29.46	0.90	59.9	−3.9	16	86.0	6	38.0	21	24.6		78			10	18	1	1	0	8	11	31	13	93	3.66	+1.29	1.47	13	18	0	1	0
Moosomin	50	0	101	37	1884					59.8	−2.9	12	87.0	26	36.0	17	22.8					1	0	3	0	9	1	7	10	0	31	0.57	−1.48	0.32	2	29	0	0	0
Muenster (St. Pete 's Monastery)	52	0	105	0	1870					55.2		6	82.0	26	35.0	17	20.6					0	13	0	0	0	11	0	4	0	31	8.70	—	3.60	7	24	0	1	0
Melfort	52	47	104	30						57.8	—	2	86.0	26	35.0	3	23.3															4.28	—	0.55	11	20	0	0	0
Maple Creek	49	55	109	28						58.9		1	83.0	25	33.8	13	23.7															5.54	—	2.14	10	21	0	0	1
Oliver	51	46	108	10						57.7	—	2	81.0	25	35.0	20	21.6															3.77	—	1.47	12	19	0	0	0
Pense (Gatesgarth)	50	20	105	0	1879					56.2	−6.3	16	84.0	7	31.0	25	26.8					2	3	2	0	0	3	9	14	0	31	4.85	−2.04	1.10	20	11	0	0	0
Prince Albert	53	10	106	0	1432	29.91	30.36	29.32	1.01	58.6	−3.5	25	84.2	25	39.0	24	22.7		81			4	1	2	1	1	5	18	6	24	62	1.98	−0.44	0.60	9	22	0	0	0
Prince (Meota	51	0	108	20	1700					56.2	—	4	83.0	25	31.0	22	21.1															3.30	—	0.71	18	13	0	0	2
Qu'Appelle	50	30	103	47	2115	29.92	30.30	29.52	0.78	57.6	−6.3	26	79.0	26	35.0	17	20.5		81			2	3	3	6	3	9	10	26	0	62	3.06	+0.35	0.54	18	13	0	4	0

PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA, JULY, 1911.

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

STATION.	Latitude N.	Longitude W.	Elevation above sea level, in feet.	Pressure. Mean reduced.	Pressure. Highest.	Pressure. Lowest.	Pressure. Range.	Temperature. Mean.	Temperature. Difference from average.	Temperature. Years observ'n	Temperature. Highest.	Temperature. Date.	Temperature. Lowest.	Temperature. Date.	Temperature. Mean daily range.	Mean temperature of dewpoint.	Mean relative humidity.	Mean amount of cloud.	No. of days completely clouded.	Direction of wind from N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.	Total number of observations.	Velocity of wind. Mean miles per hour.	Highest day's velocity.	Date and direction from.	Precipitation. Amount.	Difference from average.	Heaviest fall in month.	Days with ·01 or more	No. of fair days	No. of [illegible]	No. of [illegible]	No. of [illegible]
				in.	in.	in.	in.																																	
SASKATCHEWAN—*Con.*																																								
Quill Lake																																								
Regina	50 27	104 37	1885					58.6	3.6	27	80.0	3	38.0	17	23.7																		3.12	+2.45	1.04	11	17	0	0	0
Rathmullen	51 20	108 57						57.7		2	85.0	7	31.5	20	21.2																		3.02		0.78	16	1	0	2	0
Rosthern	52 40	106 20	1657					57.0	—	1	87.5	7	38.6	21	22.1																		2.89		0.64	12	19	0	0	0
Swift Current	50 20	107 45	2139	29.99	30.11	29.55	0.89	60.8	−1.9	25	86.0	11	38.0	20	21.7		66			6	6	3	7	6	17	25	23	0	93				2.56	+0.05	0.48	15	16	0	6	0
Saskatoon	52 15	106 30	1571					58.1	3.6	12	82.4	25	37.0	26	23.0																		1.87	0.07	0.40	12	19	0	0	0
Strassburg	51 5	104 56						57.9		2	80.5	6	36.0	19	23.3																		1.59		0.68	7	21	0	0	0
Scott (Ex. Farm)	52 7	109 30						55.1		1	81.0	25	31.8	12	26.3																		3.95		1.62	19	12	0	0	0
The Pas	53 49	101 15	890	29.82	30.28	29.16	1.12	59.0	—	2	87.0	26	43.0	17	17.8					1	1	6	0	3	5	30	13	0	62				1.67		2.21	16	15	0	1	0
Waseca	53 6	109 29						56.6	—	4	79.0	25	35.0	2	21.6					0	1	6	1	1	1	16	5	0	31				1.99		1.1	6	25	1	0	0
Yorkton	51 11	102 29						60.8		3	86.0	27	40.0	17	25.5																		1.67		0.86	6	25	0	0	0
Yarbo (Fairfield)	50 30	102 1						58.4	—	4	89.0	27	34.0	17	27.3					5	0	0	1	1	3	4	11	3	31				1.32		0.24	13	18	3	4	4
MANITOBA																																								
Almasippi	49 14	99 20						63.3	0.3	16	89.0	4 26	37.0	16	26.8																		1.45	0.13	0.40	9	2	0	7	0
*a*Aweme (St. Alban's)	49 42	99 33	1180	28.71	29.03	28.36	0.67	61.6	2.9	26	97.5	7	42.0	25	26.1																		3.39	0.40	1.99	11	17	3	1	0
Brandon	49 51	99 57	1176					62.4	2.2	15	92.5	7	39.9	17	24.3			5		0	8	1	3	2	23	19	27	10	93	1	01	10W	2.91	0.58	1.12	11	25	0	1	0
Berens River	52 18	97 23	710					63.0		5	93.0	29	39.0	23	17.6					18	0	3	1	10	2	11	16	1	62				1.89		2.10	6	25	0	0	0
Birtle	50 25	101 1	1703																																					
Carberry	49 52	99 20	1258							7	91.0	8																					1.75		0.90	10	21	0	5	0
Carman	49 31	98 0	872					61.0		7	86.0	27	43.0	17	23.5																		0.06		0.06	1	30	0	0	0
Cypress River	49 33	99 3	1232					62.2		6	86.0	8	38.0	17	25.8																		1.57		0.70	9	22	0	0	0
Dauphin	51 8	100 2	957					62.5		1	91.0	8	43.2	11	21.7																		2.36		0.86	14	17	3	2	0
Hillview	49 55	100 33	1100					62.0	2.1	25	91.0	7	41	17	23.3			3	0	6	4	4	2	6	21	14	36	0	93				1.16	−1.44	1.85	10	21	0	7	0
Minnedosa	50 15	99 50	1690	29.40	30.26	29.51	0.7	60.3	3.1	28	88.9	26	37.2	25	23.5			5	0														2.04	−0.59	0.45	17	14	0	3	0
Morden	49 11	98 6	978					63.8		7	88.0	2	41.0	16	25.1					11	2	1	1	1	6	11	13	8	62				0.98		0.26	8	22	0	7	0
Moose Horn Bay (Aikensville)	51 15	99 33						63.1	—	2	83.4	1	41.8	31	19.4					12	0	3	2	5	6	11	16	7	62				1.65		0.31	20	11	0	5	0
Ninga	49 11	99 51	1619							1	82.1	25	39.6	21																								0	1	0
Oakbank	49 57	96 42	800					61.4		16	83.0	1	42.3	16	19.9					4	5	0	1	4	2	1	9	1	30				5.47	2.80	3.48	8	23	0	1	0
Pipestone	49 34	100 58	1100					63.7		11	91.0	8	38.0	17	28.6																		6.29		4.18	4	27	0	0	
Portage la Prairie	49 57	98 17	830					62.7	2.6	23	85.0	1 26	43.0	15	21.0																		2.11	0.68	21	8	22	0	0	0
Portage la Prairie (2)	49 56	98 17						63.9		1	87.0	5	41.5	17	21.8																		2.22		1.08	9	22	0	0	
Pierson	49 11	101 5	1531					62.8		6	96.0	8	35.0	17	28.2																		1.59	—	0.75	6	25	0	0	0
Stony Mountain	50 10	97 14	903					61.7	+1.0	31	85.0	1 2	39.0	16	25.6			4	0	9	6	0	1	8	5	23	8	0	60	2.2	4	1 W	3.53	0.67	3.53	1	30	0	0	0
Swan River	52 6	101 15	1112					59.9		1	90.0	26	40.0	20 22	23.1																		2.64	—	1.25	9	22	0	4	0
Treherne	49 36	98 40	1212					63.1	+1.6	15	85.0	1 26	42.0	23	21.7																		2.06		0.97	13	18	0	2	1
Virden	49 51	100 55	1444					61.3		10	91.0	8	39.0	16	28.6																		1.34		0.50	6	25	0	0	0
Winnipeg	49 53	97 7	760	29.89	30.21	29.46	0.75	64.2	1.7	38	86.2	1	43.4	16	22.1			5	0	6	3	2	4	5	14	19	8	4	62				2.96	0.37	1.38	13	18	1	2	0
ONTARIO																																								
Alton	43 51	80 5	1250																																					
Aurora	43 57	79 21	886					69.4		1	100.2	5	41.8	27	27.0																		2.10	+.17	0.77	7	21	0	4	0
Agincourt	43 47	79 16	590					71.8	+2.4	15	103.3	3	45.8	27	25.7					2	2	9	10	7	28	17	17	1	93	10.9	32.0	24 SW	3.57	+1.34	1.50	10	21	1	8	0
Barrie	44 23	79 41	889					69.3	0.0	36	101.7	5	46.8	27	22.5			4	0	1	0	7	6	11	15	8	22	23	93	1	1V	21 SW	2.80	0.07	0.70	9	22	0	4	0
Beatrice	45 8	79 20	800					67.1	+2.5	36	95.0	1 5	40.0	27	27.1			3	2	4	1	0	2	11	9	2	20	44	93	1	V	21 SW	1.9	0.92	0.0	6	25	0	0	0
Bruce Mines	46 18	83 55	595					65.6	0.0	13	97.0	2	41.0	11	24.5																		4.37	−0.02	2.09	12	19	0	7	0
Birnam	43 2	81 55	600					70.9	+2.5	28	99.5	5	45.3	26	22.6																		2.36	−0.51	0.91	7	21	0	6	0
Brantford	43 10	80 21	750					71.8	+1.5	23	102.0	4	46.0	26	25.2																		2.61	+0.23	1.27	10	2		5	
Bloomfield	43 59	77 21	260					70.1	+0.3	11	93.0	5 11	48.0	26	22.3																		1.59	—	0.55	7	21	0	1	
Bancroft	45 1	77 50						68.3	+3.9	20	100.0	5	40.0	26	30.7																		1.37	1.83	1.00	2	29	0	0	0
Copper Cliff	46 30	80 50						67.6	—	1	98.0	2	41.5	22	21.9																		1.57		0.93	8	23	0	0	0
Clinton	43 32	81 37						69.1		9	99.0	6	45.0	23	24.3					7	2	5	7	7	13	11	10	0	62				1.87	—	0.67	8	23	0	0	0
Coldwater	44 38	79 40	600																																					
Cottam	42 7	82 45	646					71.3		21	100.0	3	44.0	25	28.0					13	0	1	7	11	15	12	0	0	62				1.22	1.75	0.43	4	27	0	0	0
Chatham	42 23	82 12	595					72.7	+1.8	26	103.0	1	45.0	26	26.8																		1.16	1.58	0.51	3	28	0	0	0
Collingwood	44 31	80 2						70.3	+4.6	15	102.0	5	41.0	26	25.7																		2.98	—	1.00	6	25	0	0	0
East Toronto	43 35	79 18						69.2	—	5	105.0	3	45.0	27	23.5																		1.86	—	0.74	8	23	0	6	0
Elora	43 41	80 24	1271					68.8	+2.2	14	101.5	5	42.0	28	30.3																		1.92	−0.54	0.61	9	22	0	0	0
Gravenhurst	44 54	79 20						67.9	+0.9	39	98.0	9	40.0	27	27.2			3	0	3	0	10	10	11	12	16	11	17	93	2.0	8	24 SW	2.21	−0.19	0.80	6	25	0	4	0

ONTARIO—*Concluded.*																																										
Guelph	43	33	80	16	1050					69·7	+1·7	25	99·0	5	41·0	18-27	24·5																		1·99	−0·51	0·48	10	21	0	1	0
aGrimsby	43	13	79	36		29·61	29·89	29·00	0·89	73·4	—	2	105·0	1	49·0	28	24·4																		2·18	—	0·84	9	22	0	0	0
Haileybury	47	29	79	39	687	29·89	30·28	29·30	0·98	68·8	+2·1	20	101·9	2	48·2	7	19·3					5	1	2	0	7	17	18	5	7	62	1·7	5	29 SW	3·08	−0·22	1·28	14	17	3	8	1
Hamilton	43	16	79	54	303					72·9	+0·9	27	102·5	3	51·0	18-28	22·3																		3·33	+1·20	1·44	5	26	0	2	0
Haliburton	45	1	79	8	1050					67·8	+2·2	21	99·5	5	40·0	27	30·8																		5·15	+1·98	1·50	8	23	0	5	0
Huntsville	45	19	79	8						67·5	—	5	95·0	5	46·0	27	23·2																		—	—	—	—	—	0	0	0
Kenora	49	48	94	32	1102					65·7	−1·2	10	89·0	6	48·0	28	23·2																		3·02	0·18	2·06	14	17	0	3	0
Kakabeka Falls	48	29	89	26	912					61·9	—	3	97·0	1	37·0	16	27·2																		2·53	—	1·31	13	18	3	5	0
Kingston	44	13	76	29	285	29·97	30·28	29·47	0·81	68·6	+0·8	37	85·0	3	50·1	27	15·5			6	1	1	4	1	6	1	35	9	5	0	62				2·00	−0·86	1·15	7	24	0	7	0
Kinmount	44	45	78	38	920					66·9	+1·9	12	97·5	5	41·0	12	29·0																		2·83	—	2·03	9	22	0	0	0
Lucknow	43	56	81	30	908					67·4	−0·4	25	96·7	5	42·8	22	26·8																		1·98	−0·55	0·76	9	22	0	6	0
Lake Talon	46	15	78	48						68·4	+3·2	17	96·5	9	42·0	27	26·7																		1·53	1·78	0·51	8	23	3	4	3
London	42	59	81	13	808	29·99	30·26	29·47	0·79	71·5	+1·0	27	101·5	3-4	45·5	27	27·7			3	0	0	39	3	18	0	6	7	20	0	93	1·1	1	24 NW	1·98	−0·46	0·55	8	23	0	5	0
Lakeside Home	43	40	79	21						66·3	—	7	92·0	2	45·0	26-27	18·5																		—	—	—	—	—	0	0	0
Lorne Park	43	32	79	37						72·5	—	3	104·0	4	44·0	27	26·7																		4·18	—	1·96	8	23	0	0	0
Lindsay	44	20	78	45	872					70·5	+2·1	32	104·2	5	45·5	27	26·4			4	1	5	2	1	2	9	15	18	17	24	93	1·3	6	21 SW	2·84	+0·34	1·42	11	20	0	8	2
Lakefield	44	25	78	15	850					71·0	+2·5	28	100·0	5-6	50·0	26	19·6																		2·98	—	1·00	12	19	0	0	0
*Midland	44	44	79	53	750					78·1	—	4	101·0	5	60·0	21	—																		2·74	0·31	0·85	6	25	0	2	0
Madoc	44	30	77	29	575					69·7	—	7	98·5	5	45·0	27	25·2																		2·23		0·90	9	22	0	5	0
Montague	44	56	75	57						71·2	—	2	99·0	3	45·0	28	26·2																		1·76		0·89	3	28	2	5	1
Montreal River	47	8	79	29						66·8	—	1	100·0	2	44·0	7-23	26·8																		3·01		0·66	10	21	0	3	0
Matheson	48	29	80	26						63·6	—	1	104·0	9	32·0	17	30·6																		—		—	—	—	0	3	0
*North Bruce	44	23	81	25						65·9	+1·2	23	95·0	5	50·0	26	—																		1·34	−1·44	0·51	7	21	0	0	0
North Gower	45	8	75	13						74·0	—	8	104·3	5	47·0	26	26·7																		1·10	—	0·65	2	29	0	2	0
Owen Sound	44	31	80	55	597					69·4	+3·0	33	104·0	3	45·0	1	24·1					10	1	0	0	44	2	2	2	1	62				—	—	—	—	—	0	1	1
Orillia	44	37	79	21	775					70·7	—	9	104·0	5	48·0	27	21·2					3	2	0	3	8	6	0	9	0	31				1·09	—	0·31	6	25	0	3	0
Ottawa	45	26	75	42	294	29·91	30·24	29·46	0·78	69·9	+0·2	28	95·0	3	50·0	27	20·7			4	2	0	3	2	3	6	7	39	0	2	62				3·10	−1·00	1·43	12	19	2	5	0
*Ottonabee	44	20	78	18	674																																					
Port Arthur	48	27	89	12	644	29·88	30·22	29·56	0·66	62·8	+0·6	31	94·0	2	42·0	16	22·8			5	4	5	6	11	1	1	9	16	11	2	62				3·01	−0·82	1·14	10	21	2	1	0
Port Stanley	42	40	81	13	592	29·98	30·25	29·50	0·75	69·7	+1·0	37	87·7	10	47·6	27	19·3			4	0	0	1	3	3	2	19	15	5	11	62				4·05	+0·69	1·83	9	22	0	8	0
Port Dover	42	47	80	13	635					70·1	+0·5	36	90·5	3-5	40·1	27	17·7					1	1	2	2	8	10	4	3	0	31				3·11	−0·11	1·35	7	24	0	2	0
Port Burwell	42	39	80	55	592					69·1	—	8	89·0	4	47·5	18	17·8																		2·96	—	1·14	6	25	0	1	0
Parry Sound	45	19	80	0	635	29·96	30·24	29·29	0·95	70·1	+3·5	36	98·0	5	47·0	27	22·2			4	1	1	2	1	9	1	26	13	3	3	62				2·24	−0·89	0·86	7	21	0	3	1
Point Clark	44	5	81	44	595						—	39	102·0	9	60·0	25	16·8																		0·85	1·70	0·45	2	29	0	2	0
Pelee Island	41	50	82	35	585					79·0	+4·8	29	97·0	1-30	61·0	25	14·7																		0·58	2·80	0·25	5	26	0	0	0
Paris	43	12	80	25	840					71·7	+1·9	22	102·0	3-4	46·0	18-27	26·8																		1·41	[illegible]	0·27	10	21	0	5	0
Peterboro	44	17	78	19	722					69·1	+0·0	41	100·0	5	44·0	27	22·4																		4·62	+1·88	2·17	11	20	0	8	0
Porcupine	48	29	81	18																																						
Providence Bay	45	4	82	14						—	—	4	—	—	—	—	—																		1·89	—	1·35	6	25	0	4	1
Ronville	45	15	78	57	1038					66·0	—	4	96·0	5	45·0	21 26	25·4																		2·61	—	1·58	9	22	0	0	0
Renfrew	45	26	76	39	416					71·2	+3·7	22	102·8	3	45·0	8	28·8																		1·41	−3·73	0·62	10	21	1	4	0
St. Catharines	43	9	79	17	347																																					
Stonecliffe (Rockliffe)	46	9	78	6	557	29·91	30·26	29·41	0·85	68·2	+2·3	21	100·0	2	45·0	11	28·4			7	11	1	0	8	0	0	5	12	0	36	62				1·71	−1·57	0·38	9	22	1	0	2
Southampton	44	30	81	21	656	29·99	30·25	29·28	0·97	67·7	+1·7	35	91·0	5	44·8	18	18·6			5	4	10	2	3	6	27	2	4	4	4	62				1·66	−1·18	0·30	8	23	0	2	0
Sarnia	42	59	82	24	586																																					
Stratford	43	23	81	0	1191																																					
Stony Creek	43	13	79	45	292					73·1	+1·8	28	105·0	3	47·0	28	21·2					1	15	9	7	0	11	19	1	0	93	2·1	10	21 W	1·86	−1·24	1·00	5	26	0	2	0
Schreiber	48	50	87	15	983					57·3	−4·4	12	82·0	2	36·5	17	21·7																		6·15		1·94	16	15	1	6	4
Shelburne	44	5	80	47						67·5	—	2	97·0	6	43·0	27	24·4																		3·34		1·05	8	23	0	1	0
Toronto	43	40	79	24	350	29·97	30·25	29·41	0·84	71·6	+2·5	70	103·2	3	47·7	27	22·0					4	4	12	2	6	12	18	2	2	62				2·61	−0·32	0·93	11	20	0	9	1
Uxbridge	44	5	79	8						69·3	—	7	98·0	3-5	44·0	27	23·1																		2·20	—	0·61	8	23	0	0	0
Uplands	45	18	79	25						65·2	+1·0	26	96·0	9	39·0	20	31·2					8	0	2	0	9	0	29	0	14	62				2·43	−0·55	0·80	5	26	0	2	0
Ursa	44	51	78	18																																						
White River	48	35	85	16	1252	29·86	30·23	29·33	0·90	60·7	+0·3	22	90·0	1-2	36·0	26	24·3					1	2	4	1	8	7	17	6	16	62				4·57	+1·70	2·36	5	26	0	0	0
Woodstock	43	8	80	47	980	29·98	30·24	29·41	0·8[illegible]	69·1	+0·5	37	98·0	4	44·0	27	21·4		61	5	1	5	1	5	6	4	25	17	30	0	93	9	30	24 W	2·27	−1·17	0·55	9	22	0	0	0
Welland	42	59	79	17	577					71·7	+1·6	25	100·0	4	48·0	18	21·1																		2·72	+0·53	1·02	7	21	0	0	0
Windsor	42	20	83	4	625					73·6	+5·7	36	100·0	1	52·0	[illegible]	19·2																		0·79	1·63	0·21	9	22	0	0	0
Wallaceburg	42	35	82	24						72·4	—	7	99·0	3	48·0	25	23·3																		1·25	—	0·70	6	25	0	0	0
QUEBEC—																																										
Abitibi	48	43	79	22						65·1	+0·8	16	92·0	9	40·0	29	20·0			5	2	3	2	3	1	19	11	38	16	0	93				4·84	+1·9	1·95	5	26	0	0	0
*Anticosti, E. Point	49	6	61	42	30					57·2	+1·9	28	67·0	24	47·0	4	—					1	5	8	2	17	16	[illegible]	1	20	93				2·41	—	0·73	6	25	0	0	16
*Anticosti, W. Point	49	52	64	32	30					60·4	+1·5	29	72·0	29	51·0	5						1	2	8	11	31	4	15	18	0	93				2·84	−0·51	0·94	10	21	0	0	8
Brome	45	10	72	38	678					69·2	+3·5	1	93·0	3-10	44·0	8-27	22·5					9	0	1	0	14	13	51	2	0	93				1·41	−2·82	0·65	10	21	0	6	0
*Bicquet	48	25	68	53						57·1	+2·7	29	71·0	14	45·0	31	—					0	31	2	0	1	0	12	17	0	93				0·19	−2·81	0·10	2	29	0	0	19
Clarke City	50	0	66	25						62·4	—	5	85·0	9	45·0	5	19·2					1	2	8	1	2	13	0	1	0	31				3·43	—	1·02	15	16	0	4	1
*Cape Chatte	49	6	66	45						59·6	−1·0	30	73·0	28	45·0	15	—					2	0	6	1	0	3	3	0	46	93				2·46	0·42	1·50	7	21	0	1	9
*Cape Magdalen	49	16	65	20	93					62·1	+1·8	29	82·0	17	51·0	30	—					1	0	4	1	19	3	11	25	26	93				2·49	0·18	0·88	8	23	1	3	10
Chicoutimi	48	25	71	5	150					—	—	26	—	—	—	—	—			6	1	0	0	0	43	0	45	0	5	0	93	111	VIII	26 SW	3·98	—	1·09	19	12	0	4	0
Chicoutimi West										79·2	—	1	92·0	28	47·0	7-24	20·8																		—	—	—	—		0	13	0
Cap Rouge	46	46	71	18						68·5	—	1	93·0	4	46·2	3	22·0																		3·46	—	0·88	15	16	0	0	0
Disraeli	45	55	71	21						67·6	—	4	93·0	4	42·0	8	28·2																		2·61	—	0·62	8	23	0	2	5
Father Point	48	31	68	19	20	29·87	30·18	29·45	0·73	60·9	+3·0	34	76·7	17	46·0	14	16·5			7	5	1	10	5	4	3	19	13	3	4	62				5·86	+3·02	1·78	17	14	0	4	5
Lake Edward	47	39	72	15	1333					66·1	-		94·5	4	42·0	11	22·9																		4·73	—	3·58	10	21	0	7	0
Montreal	45	30	73	35	187	29·93	30·21	29·42	0·82	72·8	+3·8	37	94·5	3	55·6	23	17·2			1	0	0	1	0	3	6	11	38	2	1	62				2·17	−0·79	0·57	10	21	0	4	0

PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA, JULY, 1911.

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

Station.	Latitude N.		Longitude W.		Elevation above sea level, in feet.	Pressure: Mean reduced.	Pressure: Highest.	Pressure: Lowest.	Pressure: Range.	Temperature: Mean.	Difference from average.	Years observ'n.	Highest.	Date.	Lowest.	Date.	Mean daily range.
QUEBEC—*Concluded.*																	
Perkin's Mills	45	38	75	38													
Quebec	46	38	71	13	296	29·91	30·25	29·47	0·78	70·3	+ 1·0	37	93·2	3	52·0	21	20·9
*Roberval	48	31	72	13	352												
St. Anne de Bellevue	45	27	73	59						73·2		5	98·2	3	50·2	8	22·6
Shawinigan Falls	46	31	72	43						67·9		9	98·0	9	45·0	27	25·9
Sherbrooke	45	32	72	5	620					70·1		9	95·5	4	46·8	8	23·6
NEW BRUNSWICK																	
Chatham	47	3	65	29	21	29·95	30·28	29·52	0·76	71·0	+ 1·3	37	95·0	6	53·0	8, 27	22·6
Dalhousie	48	4	66	22	39					67·7		31	85·0	8	50·0	8, 11	18·3
Fredericton	45	57	66	36	161	29·96	30·31	29·58	0·73	70·4	+ 4·4	37	95·3	6	49·0	24	24·4
Grand Manan	44	47	66	46	49	29·96	30·29	29·67	0·62	65·3	+ 3·7	27	81·6	13	52·0	5	16·9
Moncton	46	9	64	45	50					69·2	+ 3·9	11	94·5	6	48·0	7	23·5
*Point Lepreaux	45	4	66	28	30					59·5	+ 3·9	33	71·0	7	53·0	26	
St. John	45	17	66	4	70	29·97	30·32	29·59	0·73	65·0	+ 3·7	38	81·5	10	53·5	26, 27	15·2
St. Stephen	45	11	67	16	35												
Sussex	45	38	65	38	69					69·5	+ 1·8	11	93·0	4	45·0	8	24·2
NOVA SCOTIA																	
Antigonish	45	38	61	59	50					64·6		1	92·0	4	50·0	1	21·3
Halifax	44	39	63	36	88	29·99	30·33	29·67	0·66	68·7	+ 4·4	37	90·8	13	49·8	8	20·2
Port Hastings	45	39	61	22	45					65·8		19	93·0	10	42·0	6, 18	13·4
Parrsboro'	45	23	64	19	40					66·8	+ 4·3	15	80·0	1, 26	45·0	7	20·8
Sydney	46	10	60	10	35	30·00	30·31	29·64	0·67	67·3	+ 3·7	38	92·0	13	47·3	8	19·0
*Sable Island, E. Point	43	58	59	46	25					62·7	− 2·8	28	73·0	28	55·0	1, 9	
Truro	45	22	63	18	77					68·5	+ 4·5	38	91·2	6	42·3	8	25·5
Windsor	44	59	64	6	90					69·8		9	93·0		49·0	8	22·1
*Whitehead	45	15	61	8	20					62·1	+ 5·0	30	76·0	20	55·0	1, 31	
a Wolfville	45	7	64	20		29·88	30·23	29·53	0·70	70·0	+ 4·4	12	95·0	6	50·0	8	23·2
Yarmouth	43	50	66	2	65	30·00	30·31	29·68	0·63	64·5	3·6	31	86·2	10	48·8	8	19·5
P. E. ISLAND—																	
Charlottetown	46	14	63	10	38	29·97	30·30	29·63	0·67	66·9	+ 4·3	36	88·0	6	51·0	8	17·5
Charlottetown (2)	46	14	63	7	75					69·0		1	87·0	6	52·5	8	18·5
Hamilton	46	25	63	48						68·3	+ 3·7	11	86·5	3	55·0	6	15·8
NEWFOUNDLAND																	
*Amour Point	51	28	56	51						49·2		[illegible]	[illegible]	21	40·0	2, 5	
Burin	47	0	55	10	27												
*Cape Norman	51	38	55	52						56·7	+ 6·6	27	72·0	21	41·0	1, 4	
Fogo	49	43	54	17	30	29·98	30·29	29·62	0·67	57·5		4	76·0	21	38·0	10, 11	12·0
*Point Rich	50	42	57	25	35					59·1	− 1·3	27	72·0	15	48·0	1	
Port aux Basque	47	35	59	10	27	29·97	30·26	29·68	0·58	59·3		3	73·5	2, 5	46·0	8	10·3
St. John's	47	34	52	42	125	29·96	30·24	29·69	0·55	60·5	+ 1·6	39	83·0	26	44·0	3, 6	15·6
BERMUDA—																	
Prospect	32	17	64	30	151	30·20	30·40	30·04	0·36	78·3	0·1	20	87·6	20	68·6	10	11·8

Station.	Mean temperature of dewpoint.	Mean relative humidity.	Mean amount of cloud.	No. of days completely clouded.	Wind from N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.	Total number of observations.	Velocity of wind: Mean miles per hour.	Highest daily velocity.	Date and direction from.	Precipitation: Amount.	Difference from average.	Heaviest fall in month.	Days with ·01 or more.	No. of fair days.	No. of [illegible]	No. of thunderstorms.	No. of fogs.
QUEBEC—*Concluded.*																									
Perkin's Mills																									
Quebec			7	8	3	10	3	4	1	25	11	2	0	62				3·80	0·63	0·91	11	17	4	8	0
*Roberval																									
St. Anne de Bellevue																		2·01		0·94	7	24	0	0	0
Shawinigan Falls																		2·74		1·31	12	19	0	3	0
Sherbrooke																		3·12		1·02	9	22	0	2	4
NEW BRUNSWICK																									
Chatham			6	3	1	2	16	6	0	11	19	3	4	62				5·38	3·03	1·30	18	4	0	5	0
Dalhousie					0	1	13	0	0	0	13	0	4	31				0·93		0·30	8	23	0	4	0
Fredericton		73	6	1	3	2	5	14	11	26	18	11	3	93	7	19	6 SW	3·42	0·10	1·33	11	20	0	6	3
Grand Manan					1	0	4	5	9	16	11	5	11	62				2·47	0·24	0·87	11	20	0	4	9
Moncton					0	1	1	7	0	5	6	9	2	31				3·50	0·61	0·90	9	22	0	2	0
*Point Lepreaux			5	4	7	0	15	0	7	27	20	2	0	78	4·8	[illegible]	21 SW	2·49	1·87	0·73	6	25	0	3	18
St. John			5	6	3	1	5	11	22	8	1	4	7	62				2·65	− 0·25	0·67	9	22	1	6	8
St. Stephen																									
Sussex					4	0	0	1	0	5	4	2	21	33				2·81	− 0·04	0·98	7	24	1	0	0
NOVA SCOTIA																									
Antigonish																							0	0	0
Halifax			6	4	4	4	4	5	5	8	20	7	5	62				2·48	− 1·58	0·80	11	20	0	4	2
Port Hastings					0	0	0	3	8	12	0	8	0	31				3·35	1·38	0·72	8	23	0	0	0
Parrsboro'																		2·30		1·06	6	25	0	0	0
Sydney			6	9	2	5	3	5	0	12	24	3	8	62				3·25	0·82	2·00	9	22	0	4	0
*Sable Island, E. Point					2	9	0	14	1	50	0	17	0	93				1·33	− 2·60	0·3	4	27	0	0	16
Truro			5·8	3	1	5	2	11	15	26	11	3	13	90				1·06	− 1·80	0·57	6	25	0	2	2
Windsor																		2·00		0·65	10	21	0	2	0
*Whitehead					3	5	12	7	8	49	3	6	0	93				2·29	0·80	1·0	4	27	0	0	17
a Wolfville			4	1	6	1	3	1	4	6	17	7	17	62				2·18	0·10	0·70	6	2	0	3	2
Yarmouth			5	5	4	4	1	5	14	25	2	10	1	62				1·31	2·20	0·48	9	22	0	2	12
P. E. ISLAND—																									
Charlottetown			6	6	4	2	3	3	14	6	19	5	6	62				1·27	1·56	0·53	8	2	0	4	0
Charlottetown (2)																		1·12		0·56	13	18	0	0	0
Hamilton					2	2	4	1	0	23	2	0	0	31				3·42		1·78	7	24	0	0	0
NEWFOUNDLAND																									
*Amour Point					0	0	48	0	0	0	44	1	0	93				0·90		[illegible]	2	29	0	0	15
Burin																									
*Cape Norman					1	7	21	18	17	1	34	1	0	93				1·02	1·40	0·30	5	28	0	0	13
Fogo					0	5	5	8	14	8	17	1	4	62				3·88		1·04	17	14	0	2	7
*Point Rich					0	18	5	12	10	32	16	0	0	93				2·95	− 0·55	1·0	5	28	1	4	7
Port aux Basque			8	17	0	1	26	8	1	4	15	7	0	62				2·45		0·88	9	22	0	0	9
St. John's			7	10	5	11	8	7	7	16	8	0	0	62				2·63	1·52	0·68	16	15	0	0	12
BERMUDA—																									
Prospect			5	0	10	3	3	14	9	11	7	5	0	62				1·66	2·30	0·41	9	22	0	0	0

PRECIPITATION AT STATIONS REPORTING RAIN, SNOW, WEATHER, &c., DURING JULY, 1911.

STATIONS.	TEMPERATURE.					PRECIPITATION.				REMARKS.
	Amount in inches	No. of Days '01 or over	No. of Fair Days	Heaviest Fall in Month	Date	Amount in inches	No. of Days.	Heaviest Fall in Month	Date.	
BRITISH COLUMBIA—										
Alkali Lake.	1·31	4	27	0·83	6	.....			.....	Thunder on 21, 28.
Annis	1·68	9	22	0·50	8	....	..	..	...	Lightning on 6.
Beaver Lake	0·05	1	30	0·05	6	.....				
Coquitlam	0·42	4	27	0·27	1	....				
Denman's Island	0·17	2	29	0·11	7	.....				
Ferguson	2·28	7	21	0·70	6	.....				
Goldstream Lake	0·16	3	28	0·07	1	.....				
Hornby Island	0·22	2	27	0·18	1	.....				
Hydraulic	2·30	6	25	1·45	6	.....				
Jordan River	0·10	1	27	0·22	2	.....				
Jordan River (Bear Creek)	0·51	1	27	0·40	1	.....	....	....	....	
LittleQualicum(French Creek, V.I.)	0·10	1	30	0·10	1	.....				
Monte Creek	0·52	9	22	0·20	8	.....				
Naas Harbour	3·58	8	23	1·75	23	.....	.....			
Skidegate	1·93	4	29	0·70	21	.....				Lightning on 15, 25.
Shawnigan Lake	0·22	4	27	0·15	2	.....				
ALBERTA—										
Bardo	1·11	11	17	0·74	6	.....	.....			Thunder on 6, 15, 25. Fog on 1
Bismark	4·16	9	22	1·08	1	.....	.....			
Bruederheim	3·98	16	15	1·04	16	.....	.....			Thunder on 7.
Bittern Lake	5·30	16	15	0·76	6	.....	.....			Thunder on 6, 14, 25, 29.
Brooks	0·95	11	20	0·18	1	.....	.....			Thunder on 10, 16, 17, 22, 23.
Conjuring Creek	3·19	7	24	0·80	18	.....	.....			
Coutts						.....	.....			[27, 28, 31.
Campsie	4·88	13	18	0·91	17	.....	.....			Thunder on 6, 14, 16, 17, 22, 25,
Caldwell	2·00	9	22	1·06	30	.....	.....			Thunder on 16.
Dorenlee	6·89	12	19	2·40	1	.....	.....			
Dunstable	1·11	23	8	0·63	16	.....	.....			Thunder on 3, 5, 6, 7, 9, 10, 16,
Grassy Lake	0·50	2	29	0·40	1	.....	.....			21, 25, 27, 28.
Jumping Pound	2·61	13	18	0·82	19	.....	.....			
Lacombe	2·23	3	28	1·20	24	.....	.....			Thunder on 16, 22, 25.
Loch Sloy	1·90	14	17	0·50	19	.....	.....			Thunder on 10, 16, 17, 22, 23.
Lyndon	2·40	7	21	0·90	5	.....	.....			
Lineham	3·00	4	27	1·25	10	.....	.....			
Macleod	0·54	6	25	0·21	26	.....	.....			
Mayeroft	1·61	8	23	1·03	30	.....	.....			Thunder on 15, 26.
Mayton						.....	.....			
Okotoks	2·31	11	20	0·78	19	.....	.....			Thunder on 2, 11, 25, 29, 29.
Pekisko	2·61	11	20	0·44	26	.....	.....			Thunder on 15. Fog on 17.
Ponoka	1·63	13	18	1·54	1	.....	.....			
Priddis						.....	.....			
Playle Creek	3·15	13	18	0·95	30	.....	.....			Frost on 1. Hail on 15.
Sion	3·24	21	10	0·60	1	.....	.....			Aurora on 28, 29, 30, 31.
Seven Persons	0·70	2	29	0·50	1	.....	.....			Thunder on 4, 5, 6, 7, 8, 12,
Tilley						.....	.....			14, 15, 16, 20, 21, 22, 24, 25, 27,
Wabamun						.....	.....			28, 29, 30, 31.
SASKATCHEWAN—										
Carmichael	1·26	4	27	0·70	9	.....	.....			
Coulee						.....	.....			
Elm How						.....	.....			
Forks Swift Current (Gull Lake)	1·51	12	19	0·25	4	.....	.....			Thunder on 7, 17.
Gull Lake	3·16	9	22	0·72	17	.....	.....			
Hanley						.....	.....			
Kindersley						.....	.....			
Kelvinhurst						.....	.....			
Last Mountain	5·97	6	25	5·00	1	.....	.....			
Maple Creek	2·34	15	16	0·49	1	.....	.....			
Meadow Lake	5·23	9	22	1·30	4	.....	.....			
Willow Creek						.....	.....			
MANITOBA—										
Cartwright	1·43	9	22	0·51	22	.....	.....			Aurora on 29. Thunder on
Deloraine	1·33	3	28	0·86	8	.....	.....			7, 8, 14, 29.
Gretna	1·20	5	26	0·32	23	.....	.....			Thunder on 7.
Norquay	2·85	10	21	1·31	10	.....	.....			
Rapid City	4·95	9	22	3·76	7	.....	.....			Thunder on 7, 8, 12, 14, 17, 27,
ONTARIO—										29.
Deer Park	2·42	9	22	0·99	10	.....	.....			Thunder on 5, 10, 11, 14, 17, 30.
Dutton	2·35	6	25	0·65	19	.....	.....			Thunder on 3, 19.
Emsdale	3·16	11	20	1·35	6	.....	.....			Aurora on 7. Thunder on 5,
Goderich						.....	.....			16, 17, 19, 24.
Georgetown	2·05	10	21	0·51	17	.....	.....			Thunder on 5, 9, 10, 11, 13, 14,
Grantham	1·91	9	22	0·77	18	.....	.....			16, 19, 30.
Grand Valley	1·91	9	22	0·53	20	.....	.....			
MacCue	1·36	5	26	0·62	17	.....	.....			
Orangeville	2·62	8	23	1·09	20	.....	.....			
Princeton	2·37	5	26	0·58	11	.....	.....			Thunder on 10, 11, 14.
Sydenham	2·07	5	26	0·90	17	.....	.....			
Strathroy	3·42	7	24	2·08	17	.....	.....			
Watford	1·93	8	23	0·60	16	.....	.....			[16, 17, 20, 21, 27, 28, 29, 31.
Westport	1·17	4	27	0·67	17	.....	.....			Thunder on 5, 6, 11, 12, 13, 14, 15.
Wooler	2·45	6	25	0·77	17	.....	.....			Thunder on 11, 19.
Westminster	1·81	6	25	0·59	10	.....	.....			Thunder on 10.
Wesley	2·86	10	21	0·72	17	.....	.....			Thunder on 11, 19.
QUEBEC—										
Lucerne	0·52	5	26	0·17	26	.....	.....			
Perkins Mills	2·99	7	21	1·50	1	.....	.....			
Quinze Dam	3·91	7	21	1·18	25	.....	.....			Thunder on 1.
Timiskaming	3·11	10	21	0·75	5	.....	.....			
NEW BRUNSWICK—										
Point Escuminac	2·52	6	25	1.05	22	.....	.....	.....	.....	Fog on 1, 5, 19, 20, 21, 25.
NOVA SCOTIA—										
Kentville	1·22	6	25	0·33	28	.....	.....	.....	.....	Thunder on 12, 22, 25.
Liverpool	1·31	5	26	0·53	24	.....	.....	.....	.....	
Milton	0·61	4	27	0·55	25	.....	.....	.....	.....	
South Alton	2·75	7	24	1·11	12	.....	.....	.....	.....	
White Rock	1·69	6	25	0·71	12	.....	.....	.....	.....	

MEAN PROPORTION OF BRIGHT SUNSHINE REGISTERED IN EACH HOUR OF THE DAY IN THE MONTH OF JULY, 1911.

STATIONS.	Hours Ending																	
	5 a.m.	6 a.m.	7 a.m.	8 a.m.	9 a.m.	10 a.m.	11 a.m.	Noon.	1 p.m.	2 p.m.	3 p.m.	4 p.m.	5 p.m.	6 p.m.	7 p.m.	8 p.m.		
Victoria		23	52	66	68	67	70	76	72	68	70	79	73	65	31			
Salmon Arm	09	46	55	63	73	78	83	82	78	78	80	84	75	71	09	11		
Nanaimo		01	47	63	68	74	74	72	70	74	73	72	73	72	50			
Vancouver	00	43	56	59	63	65	72	71	69	66	69	69	65	62	33			
Agassiz			36	60	61	63	64	63	62	60	61	61	62	58	20			
Tranquille		63	75	77	83	86	88	92	83	80	80	82	82	75	65			
Summerland	17	65	77	82	82	87	84	84	83	83	82	81	80	75	43			
Kamloops	05	67	78	80	80	86	88	92	84	77	82	76	68	56	47	06		
Edmonton	17	34	49	56	61	63	65	70	65	73	65	56	56	48	41	14		
Dunvegan		14	39	52	53	51	55	60	55	52	49	53	48	39	38	13		
Lethbridge	32	74	72	75	81	81	83	80	75	73	63	61	61	63	50	30		
Lacombe	05	44	51	54	50	58	71	69	70	66	61	61	60	61	53	18		
Medicine Hat	13	53	70	80	78	79	73	81	78	76	74	61	65	60	48	15		
Fort Vermilion		31	49	55	62	68	66	70	63	68	71	73	62	54	39	12		
Battleford		07	28	46	49	52	57	45	47	48	39	38	35	32	14			
Indian Head	05	46	63	65	68	76	79	80	70	66	68	67	61	68	53	16		
Moosejaw	36	63	67	73	75	76	77	75	75	74	73	72	72	65	57	23		
Scott	24	52	56	58	67	68	70	67	65	63	69	64	63	63	48	26		
Rosthern	17	50	51	53	56	62	60	67	67	69	57	59	56	55	52	12	02	
Brandon	01	17	52	74	77	82	84	76	78	79	68	64	61	54	20	01		
Winnipeg	17	63	67	71	77	85	86	84	67	72	70	64	61	60	49	14		
Haileybury	00	46	54	59	61	63	63	59	58	63	59	63	63	55	48	06		
Gravenhurst																		
Woodstock		29	69	76	80	82	74	77	74	73	73	71	69	67	49	05		
Lindsay			58	66	85	86	84	75	67	67	62	69	56	53	19			
Barrie		50	64	74	74	77	73	73	73	69	69	61	69	63	42	01		
Toronto		21	43	80	81	82	81	78	67	68	68	68	71	57	31	T		
Kingston	06	51	76	81	86	89	93	88	87	88	85	77	71	71	51	02		
Ottawa	01	55	77	81	83	81	83	86	86	84	84	78	70	65	42			
Montreal	5	58	75	77	81	83	81	82	80	81	85	87	78	74	35			
Quebec		25	45	56	71	76	72	71	74	72	68	61	55	46	21	T		
Sherbrooke	08	61	77	76	77	75	74	75	76	75	71	77	73	71	49	02		
Fredericton	03	22	44	52	62	67	76	77	78	74	77	67	65	58	44	07		
Charlottetown	05	42	50	64	71	74	75	77	76	79	75	73	72	57	35	03		

	Victoria.	Salmon Arm.	Nanaimo.	Vancouver.	Agassiz	Tranquille.	Summerland.	Kamloops.	Edmonton.	Dunvegan.	Lethbridge.	Lacombe.	Medicine Hat.	Ft. Vermilion.	Battleford.	Indian Head.	Moosejaw	Scott	Rosthern.	Brandon.	Winnipeg.	Haileybury.	Woodstock.	Lindsay.	Barrie	Toronto.	Kingston.	Ottawa	Montreal.	Quebec.	Sherbrooke.	Fredericton.	Charlottetown
Registered duration in hours.	274	319	271	273	226	310	312	331	239	268	330	268	313	262	162	267	327	280	271	275	313	257	300	280	273	278	312	327	327	253	315	270	2
Percentage of possible duration	36	65	55	56	46	69	70	67	51	40	67	53	64	50	32	60	66	57	53	46	61	53	65	57	58	60	73	69	75	53	67	57	
Difference from average	+ 0														26	5				0	8		+12	- 0	1	+ 0	+16	+17	+16			+ 3	
Maximum percentage in one day	86	91	82	88	80	92	90	91	93	82	98	90	93	82	75	90	90	93	91	80	91	92	91	86	88	88	96	87	98	89	97	93	
Date of maximum	13	13	13	13	17	23	23	13	21	20	13	25	5	15	24	6	20	24	28	6	13	7	18	18	28	20	7	1	27	7	7	26	
No. of days completely clouded	1	0	2	3	8	0	0	0	2	5	0	0	0	1	3	1	0	1	3	0	1	1	0	0	0	0	1	1	0	1	0	2	

Aurora recorded: —

Where the class of aurora is noted by the observer, it is given. (I), being the brightest, (IV) the feeblest in brilliancy.

1. Aweme III, Aitkensville IV, Port Arthur I, Stonecliff II.

2. Dauphin

6. Aitkensville IV, Agincourt IV, Kakabeka Falls III, Lake Talon, Quebec III, Ottawa II.

7. Wetaskiwin II, Lake Talon III, Schreiber, Emsdale IV, Quebec III, Port Arthur II, Ottawa II, St. John III, Cape Magdalen.

18. Aitkensville IV, Montague, Chaplin IV, Quebec III, Crescent Lake III.

19. Threehills Creek II.

21. Aitkensville IV, Crescent Lake IV.

22. Dauphin.

24. Crescent Lake IV.

26. Threehills Creek III.

27. Aweme II, Aitkensville III, Kakabeka Falls IV, Haileybury II, Yarbo III, Glenbryan I, Estevan IV, Quebec IV.

28. Waitefield III, Aweme II, Aitkensville III, Dauphin, Montague, Lake Talon IV, Renfrew, Sion IV, Haileybury IV, Yarbo IV, Waseca, Winnipeg III.

29. Kakabeka Falls III, Sion III, Haileybury III, Crescent Lake IV.

30. Waitefield III, Sion IV.

31. Sion IV, Yarbo IV.

Thunder recorded:

1. Pincher Creek, Morden, Carberry, Montague, Lake Talon, Perkins Mills, Haileybury, Chaplin, Minnedosa, Nelson.

2. Hillsdown, Halkirk, Red Deer, Waitefield, Threehills Creek, Montague, Chicoutimi, Lake Edward, Okotoks, Ottawa, Fort St. James, Nelson, Delia.

3. Harmattan, Halkirk, Pakan, Loveland, Waitefield, Threehills Creek, Hillview, Carberry, Aitkensville, Lucknow, Renfrew, Chicoutimi, Lake Edward, D'Israeli, Shawinigan Falls, Moncton, Dunstable, Dutton, Fredericton, Quebec, Father Point, Port Stanley, Chatham, N.B., Delia.

4. Harmattan, Eckville, Hillsdown, Halkirk, Red Deer, Threehills Creek, Morden, Almasippi, Aitkensville, Bruce Mines, Schreiber, Providence Bay, Sion, Fredericton, Truro, Chaplin, Halifax, St. John, Yarmouth, Charlottetown, Grand Manan, Delia.

5. Morden, Agincourt, Birnam, Brantford, Montreal River, Madoc, East Toronto, Haliburton, Kakabeka Falls, North Gower, Peterboro, Uplands, Lake Edward, Pt. Lepreaux, Dunstable, Sion, Westport, Deer Park, Emsdale, Georgetown, Guelph, Haileybury, Toronto, Quebec, Barrie.

6 Athabasca Landing, Eckville, Hillsdown, Halkirk, Pakan, Loveland, Waitefield, Wetaskiwin, Birnam, Madoc, Montague, Lucknow, East Toronto, Peterboro, Orillia, Renfrew, Brome, St. Stephen, Moncton, Campsie, Dunstable, Bardo, Grand Manan, Golden, Princeton, Quesnel, Bittern Lake, Sion, Westminster, Westport, Fredericton, Gravenhurst Haileybury, Lindsay, Rathmullen, Lloydminster, Chaplin, Montreal, Quebec, Ottawa, Port Stanley, Southampton, Stonecliff, Halifax, St. John, Sydney, Chatham, N.B., Charlottetown, Fort Vermilion, Barrie, Shelburne.

7. Hillsdown, Halkirk, Loveland, Hillview, Brandon, Morden, Aweme, Almasippi, Carberry, Treherne, Oakbank, North Gower, Dunstable, Bruederheim, Sion, Cartwright, Rapid City, Gretna, London, Gull Lake, Lloydminster, Chaplin, Winnipeg, Minnedosa, Grand Forks, Rossland, Fort Vermilion, Crescent Lake.

8. Harmattan, Halkirk, Hillview, Morden, Aweme, Almasippi, Carberry, Aitkensville, Dauphin, Treherne, Oakbank, Kakabeka Falls, Schreiber, Sion, Cartwright, Rapid City, Yarbo, Chaplin, Minnedosa.

9. Halkirk, Pincher Creek, Haliburton, Schreiber, Point Clark, Orillia, Chicoutimi, Dunstable, Georgetown, Gravenhurst, Lindsay, Winnipeg, Rossland, Barrie.

10. Agincourt, Birnam, Brantford, Madoc Lucknow, East Toronto, Paris, Peterboro, Brome, Chicoutimi, Lake Edward, Shawinigan Falls, Pt. Lepreaux, St. Stephen, Dunstable, Princeton, Deer Park, Georgetown, Hamilton, London, Lindsay, Toronto, Father Point, Ottawa, Port Stanley, Loch Sloy, Cape Magdalen, Clarke City.

11. Hillsdown, Pakan, Lunnford, Waitefield, Stony Creek, Agincourt, Birnam, Aurora, Bloomfield, Brantford, Madoc, East Toronto, North Gower, Paris, Port Burwell, Peterboro, Chicoutimi, Okotoks, Princeton, Westport, Deer Park, Wooler, Georgetown, Hamilton, London, Lindsay, Rathmullen, Chaplin, Kingston, Toronto, Father Point, Port Stanley, St. John, Sydney, Chatham, N.B., Charlottetown, Grand Manan, Fort Vermilion.

12. Harmattan, Almasippi, Kakabeka Falls, Windsor, N.S., Sion, Rapid City, Westport, Kentville, Truro, Wolfville, Halifax, Yarmouth, Sydney.

13. Agincourt, Aurora, Montreal River, Matheson, East Toronto, Lake Talon, Port Dover, Point Riche, Westport, Georgetown, Haileybury, Kingston, Toronto, Quebec, Cape Magdalen, Fort Vermilion.

14. Lunnford, Waitefield, Hillview, Morden, Almasippi, Ninga, Stony Creek, Agincourt, Bruce Mines, Aurora, Brantford, Midland, Lucknow, East Toronto, Paris, Orillia, Chicoutimi, Lake Edward, Campsie, Bittern Lake, Sion, Cartwright, Rapid City, Princeton, Westport, Deer Park, Georgetown, Wesley, London, Haileybury, Lindsay, Yarbo, Muenster, Chaplin, Toronto, Southampton, Crescent Lake.

15. Threehills Creek, Macleod, Morden, Birnam, Bruce Mines, Madoc, Montague, Lucknow, Schreiber, Providence Bay, Peterboro, Renfrew, Brome, Chicoutimi, Cape Chatte, Chicoutimi, Pekisko, Mayeroft, Bardo, Sion, Westport, Haileybury, Kingston, Toronto, Port Stanley, Cape Magdalen, Clarke City.

16. Eckville, Hillsdown, Halkirk, Alix, Pincher Creek, Red Deer, Pakan, Loveland, Lunnford, Waitefield, Threehills Creek, Agincourt, Birnam, Lucknow, East Toronto, Haliburton, Owen Sound, Paris, Point Clark, Brome, Chicoutimi, D'Israeli, Campsie, Dunstable, Lacombe, Caldwell, Sion, Westport, Emsdale, Georgetown, Lindsay, Montreal, Kingston, Toronto, Quebec, Father Point, Port Stanley, Stonecliff, Loch Sloy, Delia, Clarke City.

17. Harmattan, Pincher Creek, Threehills Creek, Peterboro, Brome, Lake Edward, Sherbrooke, Campsie, Rapid City, Westport, Deer Park, Emsdale, Gravenhurst, Lindsay, Gull Lake, Glenbryan, Montreal, Kingston, Loch Sloy.

18. Pincher Creek, Aitkinsville, Providence Bay, Chicoutimi, Yarbo, Crescent Lake.

19. Pincher Creek, Hillview, Almasippi, Carberry, Dauphin, Agincourt, Birnam, Bruce Mines, Aurora, Madoc, Matheson, Midland, Lucknow, Haliburton, Kakabeka Falls, Lake Talon, Peterboro, Port Dover, Uplands, Pt. Lepreaux, Wooler, Emsdale, Georgetown, Wesley, Dutton, Gravenhurst, Haileybury, Lindsay, Lost River, Chaplin, Kingston, Toronto, Port Arthur, Port Stanley, Stonecliff, Crescent Lake, Barrie.

20. Pincher Creek, Matheson, Sion, Westport, Port Stanley, Chilcotin, Clarke City.

21. Hillsdown, Alix, Threehills Creek, Macleod, Montreal River, Montague, Lake Talon, Uplands, Brome, Chicoutimi, Lake Edward, Shawinigan Falls, Windsor, N.S., Dunstable, Sion, Westport, Wolfville, Chaplin, Quebec, Ottawa, Alkali Lake, Summerland, Fort St. James, Chilcotin, Revelstoke.

22. Harmattan, Blairmore, Pincher Creek, Red Deer, Loveland, Macleod, Chicoutimi, Campsie, Lacombe, Sion, Kentville, Truro, Wolfville, Glenbryan, Chaplin, Quebec, Halifax, St. John, Chatham, N.B., Loch Sloy, Delia.

23. Point Clark, Chicoutimi, Fredericton, Montreal, St. John, Charlottetown, Loch Sloy.

24. Bruce Mines, Haliburton, Lake Talon, Providence Bay, Chicoutimi, Moncton, Sion, Emsdale, Fort Vermilion.

25. Loveland, Lunnford, Waitefield, Wetaskiwin, Chicoutimi, Campsie, Okotoks, Dunstable, Lacombe, Bardo, Bittern Lake, Sion, Kentville, Kingston, Halifax, Fort Vermilion.

26. Harmattan, Waitefield, Threehills Creek Macleod, Aweme, Okotoks, Mayeroft, Lloydminster, Delia.

27. Pincher Creek, Waitefield, Wetaskiwin, Morden, Aweme, Almasippi, Oakbank, Campsie, Dunstable, Sion, Rapid City, Westport, Chaplin.

28. Pakan, Loveland, Waitefield, Ninga, Chicoutimi, Campsie, Dunstable, Sion, Westport, Alkali Lake, Revelstoke.

29. Hillsdown, Red Deer, Loveland, Waitefield, Threehills Creek, Wetaskiwin, Hillview, Almasippi, Oakbank, Brantford, Paris, Okotoks, Bittern Lake, Sion, Cartwright, Rapid City, Westport, London, Ottawa.

30. Pincher Creek, Hillview, Oakbank, Agincourt, Peterboro, Renfrew, Sion, Deer Park, Georgetown, Fredericton, Haileybury, Yarbo, Chaplin, Toronto, Quebec, Chatham, N.B., Peace River Crossing, Fort Vermilion, Crescent Lake.

31. Hillsdown, Pincher Creek, Waitefield, Threehills Creek, Bruce Mines, Kakabeka, Schreiber, Renfrew, Pt. Lepreaux, Campsie, Sion, Westport, Fredericton, St. John, Charlottetown, Grand Manan, Fort St. James, Nicola Lake, Okanagan Mission, Princeton, Fort Vermilion.

FORECASTS FOR JULY, 1911.

The forecasts issued by this office at 11 p.m. each night are posted up at every telegraph station in Canada, and are for the 24 hours beginning at 8 a.m. the following day.

The number of these predictions issued during the month was 1235. These were divided as follows :—

District.	No. Issued.	Verified.			
		No. Fully	No. Partly	No. Not	Per-centage.
Alberta	76	64	6	6	88·2
Saskatchewan	76	66	5	5	90·1
Manitoba	79	71	3	5	91·8
Lake Superior	119	99	16	4	89·9
Lower Lake Region	119	97	15	7	87·8
Georgian Bay	119	98	11	7	88·2
Ottawa Valley	96	82	8	6	89·6
Upper St. Lawrence	95	84	7	4	92·1
Lower St. Lawrence	103	88	6	9	88·3
Gulf	107	85	10	12	81·1
Maritime Provinces West	123	96	18	9	85·4
Maritime Provinces East	123	97	15	11	85·0
Total	1235	1027	123	85	88·1

In order to obtain the percentage of verification of the predictions, the number partly verified is divided by two and added to the number fully verified, and the result divided by the total number issued.

In ascertaining to what extent the predictions have been verified, the reports from the agents at all observing stations, as well as the telegraphic reports, are used.

R. F. STUPART, Director.

Meteorological Office, Toronto.
August 26, 1911.

DEPARTMENT OF MARINE AND FISHERIES, CANADA.

METEOROLOGICAL SERVICE.

Monthly Weather Review.

VOL. XXXV. AUGUST, 1911. No. 8.

INTRODUCTION.

In compiling the present Review the principal data made use of are the telegraphic reports of observations received at this office for the purpose of weather forecasting, and reports by mail from voluntary observers and storm signal agents. For the data used in tracing the paths of areas of high and low pressnre in the United States, we are indebted to the Chief of the Weather Bureau, Washington, D.C.

GENERAL SYNOPSIS.

Showers occurred frequently during the first and last weeks in southern British Columbia. Temperatures were a little higher than usual in the southwestern portion of that province, but elsewhere were a little lower than the average, especially in the Cariboo district, where night temperatures fell below 40° on 8 days.

The month of August was remarkable for the amount of precipitation in the western provinces. Rain or hail was recorded at many places on 16 days, while a few observers reported rain falling continuously to a depth of 3 inches, a very rare occurrence in western Canada. The weather was about 4° cooler than is usual for August, while frosts occurred in many districts during the last week.

In eastern Manitoba and in Ontario weather conditions did not differ very much from normal, but in Quebec mean temperatures were about 3° higher than usual, while the rainfall was deficient.

In northern New Brunswick the rainfall was locally heavy, but elsewhere in the Maritime Provinces there was a general deficiency of precipitation. The month was warmer than usual, especially the first week, when at many places temperatures of 80° to 85° were recorded each day.

ATMOSPHERIC PRESSURE.

The mean atmospheric pressure for August exceeded the normal throughout the greater part of Canada, with the greatest departures over the western provinces, where differences were between 0·04 and 0·11 of an inch. In Ontario and Quebec the normal was just reached in a few localities, but generally the value was slightly in excess.

HIGH AREAS.

Five areas of high pressure were sufficiently well marked to allow of their paths being traced. Two first appeared in the vicinity of the Yukon Territory, one in northern British Columbia, one in the North Pacific States and one passed into the Maritime Provinces from Labrador. The course of four areas was over the Great Lakes, thence to the Atlantic seaboard. The system which appeared in northern British Columbia on the 24th was the most pronounced of the series, and as it passed over Ontario between the 29th and the 30th it brought the first light frosts of the season in a few northern parts of the province.

LOW AREAS.

Nine areas of low pressure were sufficiently well defined to allow of their paths being traced while there were one or two minor depressions which could not be tracked with any degree of certainty.

Two areas first appeared in southern British Columbia, two in the west Pacific States, two in the south Pacific States, one in the Province of Quebec, one in the State of Maine and one off the South Carolina coast.

The areas which appeared in the State of Maine and in Quebec, respectively, developed with remarkable rapidity, causing stormy conditions in the Gulf of the St. Lawrence and in the Maritime Provinces. The area which was first shown off the Carolina coast and which was apparently of tropical origin, moved a little inland with diminished intensity, but subsequently, between the 31st of the month and the 1st of September, traversed southern Nova Scotia and Newfoundland while quickly re-developing, and caused heavy weather in the Gulf of the St. Lawrence and over Newfoundland. The remaining six areas in nearly all instances passed either over the western provinces or far to the northward of Ontario and Quebec, and were chiefly noticeable for their accompanying frequent and often heavy rainfalls from the Rocky Mountains to Manitoba.

TEMPERATURE.

In the extreme southwestern portion of the mainland of British Columbia and on Vancouver Island the mean temperature of the month was either normal or a little above, but over the remainder of the province was from 1° to 2° below. Throughout the Prairie Provinces the month was cooler than usual, mean temperatures falling from 3° to 5° below normal in Alberta and Saskatchewan and from 2° to 3° below in western Manitoba; in the eastern portion of the latter province, however, conditions were nearly average.

In the Lake Superior districts of Ontario the differences from normal were very small, but over the remainder of the province there was an excess over normal mean of about 2°.

The normal mean temperature of August was exceeded by about 3° in Quebec and Newfoundland, and by from 1° to 2° in the Maritime Provinces.

The highest and lowest temperatures recorded in each Province during the month of August, 1911, were:

	HIGHEST.	LOWEST.
British Columbia	94° at Grand Forks and Greenwood on the 18th, on the 8th and Plate)	30° at Hedley (Nickel 23rd, Cranbrook on 14th and 19th.
Alberta	92° at Medicine Hat on the 19th	26° at Gilt Edge on the 27th.
Saskatchewan	94° at Broadview on the 14th	26° at Grenfell & Waseca on the 27th.
Manitoba	94° at Aweme on the 13th and at Moose Horn Bay on the 14th	31° at Aweme on the 28th.
Ontario	97° at Lorne Park on the 7th	25° at Uplands on the 30th.
Quebec	94° at Ste. Anne de Bellevue on the 1st and at Shawinigan Falls on the 6th	33° at Clarke City on the 19th.
New Brunswick	92° at Chatham on the 4th	39° at Moncton on the 30th.
Nova Scotia	89° at Wolfville on the 10th	38° at Antigonish on the 31st.
P. E. Island	90° at Charlottetown on the 5th	44° at Charlottetown on the 31st

PRECIPITATION.

The precipitation recorded during the month of August was in excess of average in southern British Columbia, the western provinces, the southern counties of the peninsula of Ontario and New Brunswick. Less than the normal amount was reported from the greater part of Ontario, Quebec, Nova Scotia and Prince Edward Island. Exceptionally heavy rain-falls occurred locally in Alberta and Manitoba during the first week.

WINDS, AUGUST, 1911.

PROVINCES AND STATIONS.	Total Mileage.	Greatest Mileage in 24 hours.	Greatest Mileage in one hour.	Number of days with Gales	Number of days of Strong Winds.	Number of days of Fresh Winds.	General Direction.
British Columbia.							
Victoria	6117	372	23		9	14	S.W.
Point Garry	6243	373	21		7	19	E.
Triangle Island	3762	295	18				S.W.
Alberta.							
Banff (Sulphur Mt.)	9328	895	61	8	5	7	W.
Edmonton	3244	257	15			4	E.
Calgary	4584	431	31		3	5	W.
Saskatchewan.							
Prince Albert	3233	273	21		1	2	W.
Swift Current	5171	399	21		2	12	S., S.W.
Qu'Appelle	5152	295	21		4	11	W.
Manitoba.							
Winnipeg	6694	407	26		6	12	S.
Ontario.							
Port Arthur	6186	361	20		1	14	N.W.
Parry Sound	4337	249	22		1	8	S.W.
Southampton	4719	366	26		2	6	S.
Woodstock	4580	360	20		2	6	N.W.
Guelph	5540	361					N.W.
Toronto	6615	451	29		5	13	N., N.W.
Quebec.							
Quebec	8251	419	41	1	13	11	N.E.
Father Point	8982	684	40	7	12	4	W.
Maritime Provinces.							
Fredericton	5002	379	24		3	9	W.
St. John	6479	539	38	1	8	3	S.W.
Pt. Lepreaux	7 46	575	40	4	7	7	W.
Halifax	6715	518	12	2	5	10	W.
Sable Island	9987	743					S.W.
Flat Point	9170	660	41	3	11	12	S.W.
Charlottetown	5327	378	25		4	5	S.W.

PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA, AUGUST, 1911

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers

STATION.	Latitude N.	Longitude W.	Elevation above sea level, in feet.	Pressure: Mean reduced.	Pressure: Highest.	Pressure: Lowest.	Pressure: Range.	Temperature: Mean.	Difference from average.	Years observ'n	Highest.	Date.	Lowest.	Date.	Mean daily range.	Mean temperature of dewpoint.	Mean relative humidity.	Mean amount of cloud.	No. of days completely clouded.	Direction of wind from: N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.	Total number of observations.	Velocity of wind: Mean miles per hour.	Highest day's velocity.	Date and direction from.	Precipitation: Amount.	Difference from average.	Heaviest fall in month.	Days with ·01 or more.	No. of fair days.	No. of auroras.	No. of thunder storms	No. of fogs.
				in.	in.	in.	in.																																	
BRITISH COLUMBIA,—																																								
Alberni (Beaver Creek)	49 15	124 49	300					61·0	+1·5	16	93·0	26	40·0	11 17	33·2																		0·47	−0·51	0·31	2	29	0	2	0
Agassiz	49 14	121 31	52					63·9	−1·8	20	84·0	25	42·0	15	28·6																		2·97	+0·15	0·54	9	22	0	0	0
Atlin	59 35	133 38	2240	30·10	30·51	29·78	0·73	53·8	—	5	76·5	1	36·0	23 31	20·1			5	4	10	0	0	0	21	3	1	3	21	62	5·6	16·0		1·09		0·48	11	20	1	0	0
Barkerville	53 2	121 35	4180	30·02	30·26	29·84	0·42	50·2	−2·8	21	67·0	19	32·0	8	20·3		80	5	1	0	0	0	2	0	2	0	0	58	62	0·8	20·0	29 S E	2·81	0·24	1·32	12	19	0	0	0
Bella Coola	52 10	126 54	150					61·7	+1·4	13	88·0	5	40·0	26	30·8																		1·59	0·38	0·51	9	22	0	1	2
Chilcotin (Big Creek)	51 40	123 0	3100					57·0	—	8	80·0	18	35·0	8	27·6																		1·10		1·58	8	23	0	1	0
Cranbrook	49 30	115 50						—	—	3	81·0	12	30·0	14-19																			1·84		1·07	7	24	0	0	0
Clayoquot	49 11	125 47	10					58·1	1·0	12	80·0	26	45·0	17 22	16·9																		1·58	1·87	0·71	10	21	0	0	12
Cowichan (Tzouhalem)	48 25	123 42	170					62·6		11	82·5	26	43·0	16	23·4																		0·62	—	0·60	2	29	0	1	0
Chilliwack	49 10	121 57	21					62·5		9	86·0	20	42·0	16	22·3																		2·09	—	0·74	7	24	1	3	3
Enderby	50 32	119 7	1180					62·2		8	84·0	18	37·0	25	31·0																		1·75	—	0·94	6	25	0	2	0
Fort St. James (Stuart's Lake)	54 28	124 12	2280					51·0		18	73·5	27	29·0	23	27·1																		0·76	−0·58	0·33	7	24	0	0	0
Fairview	49 11	119 36																																						
Fruitvale	49 9	117 31						58·5	—	2	88·0	31	32·0	22	35·8																		1·02	—	0·50	6	25	0	0	0
Glacier	51 14	117 29	4072					52·4		10	75·0	20	36·0	9 23	23·2																		2·55	0·63	0·61	8	23	0	0	0
Golden	51 16	116 55	2550					56·3		10	79·0	19	35·0	27	25·8																		3·28	—	0·50	5	26	0	1	0
Grand Forks	49 2	118 27						61·7		1	91·0	18	42·0	14 27	33·7																		0·52	—	0·16	8	23	0	1	0
Greenwood	49 5	118 49						59·7		1	91·0	18	30·5	26	41·4																		1·56	—	0·60	9	22	0	0	0
Holberg	50 39	128 18						58·9		3	79·8	26	48·5	17	13·0																		2·83	—	1·00	5	26	0	0	0
Hedley	49 35	120 10						64·2		6	93·0	18	44·0	26	27·8																		1·61		0·47	11	20	0	0	0
Hedley (Nickel Plate)								46·3		8	69·0	26	30·0	8 23	23·9																		2·49		0·50	8	23	0	0	0
Hope	49 23	121 25						61·5		2	84·5	26	50·0	23	20·6																		3·39	—	1·47	11	20	0	0	0
Ikeda Bay	52 17	131 7	5							4	75·0	5	51·0	7 15	—																		0·70	—	0·28	3	28	0	0	5
Kamloops	50 41	120 30	1245	29·91	30·21	29·60	0·55	66·0	−2·1	19	89·1	13	43·0	9	26·8		61	6	3	1	1	1	3	2	6	27	9	9	62	1·1	13·0		1·02	0·01	0·79	4	27	0	0	0
Ladner	49 5	123 4						59·3	+0·5	31	78·0	26 27	40·0	19	22·5																		0·60	0·52	0·60	1	30	0	0	0
Massett, Q.C.I.	53 58	132 9	30					59·8	+0·4	15	80·0	7	46·0	16 18	14·9																		0·11	0·33	0·32	7	24	0	1	0
a Nanaimo	49 10	123 37	125																																					
Nicola Lake	50 9	120 30	2120					60·2	−0·8	16	83·0	19	40·0	26 27	23·4																		1·53	+0·61	0·39	6	25	0	1	0
North Nicomen	49 12	122 2	59					63·8	+0·5	19	85·0	22 26	47·0	16	22·7																		2·41	+0·38	0·49	9	22	0	3	0
New Westminster	49 13	122 54	330					62·4	+0·9	21	82·5	22	47·2	21	20·0																		1·22	0·15	0·58	7	24	1	2	1
Nelson	49 29	117 21	1760					63·6		10	86·0	18	43·0	23	25·0																		1·63	—	0·29	6	25	0	1	0
Needles	49 40	118 9						61·4		2	82·0	17	40·0	26	31·2																		1·40	—	0·70	4	27	0	0	0
Okanagan Mission (Kelowna)	49 52	119 29	1200					63·5	0·0	13	83·0	17	43·0	23	21·6																		1·16	0·31	0·50	6	25	0	0	0
Princeton	49 29	120 29	1650					60·6	1·7	17	89·0	18	31·0	26	31·2																		1·34	+0·51	0·61	8	23	0	6	0
Penticton	49 29	119 35						64·0	—	5	84·0	3	44·5	26	21·8																		1·26		0·38	9	22	0	0	0
Pemberton Hatchery	50 20	122 33						63·4	—	4	86·0	1	42·0	16 25	26·0																		2·09		1·01	5	26	0	1	0
Prince Rupert	54 18	130 18	170	30·03	30·28	29·71	0·57	57·0		3	81·0	22	45·0	28	14·8		84	7	11	1	1	1	2	3	5	8	4	37	62	1·8	8·0		3·67		1·06	14	17	0	0	10
Quesnelle	52 59	122 30	1700					60·5	−2·4	16	86·0	18	37·0	9	30·5																		1·67	−0·58	0·35	7	24	0	1	0
Revelstoke	51 0	118 6	1476					59·3	−1·9	11	86·0	18	36·0	7–8	29·9																		1·63	−0·86	0·47	8	23	0	0	0
Rossland	49 5	117 48	3400					60·3		8	85·0	18	45·0	9-10	21·7																		1·33		0·82	9	22	0	3	0
Ruskin (Stave Falls)	49 16	122 23	125					61·8	—	2	85·0	15-27	45·0	14 23	29·2																		2·76		1·36	4	27	0	0	3
Salmon Arm	50 42	119 35	1152					63·0		6	88·0	18	41·0	26 27	28·6																		1·71		0·83	7	24	1	6	1
Salmon Arm (Ex. Farm)								62·8		1	89·0	18	43·0	23	32·6																		1·14		0·65	5	26	0	0	0
Steveston (Garry Point)	49 21	123 17						59·0	−0·6	16	77·0	23	40·0	16	19·5																		0·79	−0·18	0·71	4	27	0	0	0
Swanson Bay	53 37	128 53						59·5		4	80·0	22	41·0	2	15·1																		3·28	—	1·25	8	23	0	0	0
Salt Spring Island	48 50	123 29																																						
Summerland	49 57	119 40	1100					65·6	—	5	88·0	18	47·0	23	23·7																		1·26		0·93	2	29	0	1	0
Sooke	48 41	123 41	25					56·7	—	1	77·0	6–7	39·0	15	21·4																		0·70		0·50	3	28	0	0	16
Stewart	56 1	130 1	215					59·6	—	1	84·0	3–7	41·0	19 20	26·5																		3·67		0·82	11	20	0	0	0
Tobacco Plains (Elko)	49 1	115 5	2681					62·6	−0·9	16	87·1	31	38·0	26-28	28·7																		1·51	+0·26	0·71	6	25	0	2	0
Triangle Island	50 52	129 5	680	30·16	30·36	29·95	0·41	49·4	—	1	55·0	7–16	44·0	15	5·4		96	10	29	2	2	3	0	7	32	16	0	0	62	5·6	12·0	—	3·73	—	2·21	25	6	0	0	28
a Tranquille	50 41	120 29		28·75	29·06	28·54	0·52	65·8	—	3	91·0	14	45·0	23	26·7		72	5	3	8	3	1	7	3	5	4	31	0	62				1·57		1·05	6	25	0	1	0
Vernon (Coldstream Ranch)	50 14	119 15	1557					61·7	−0·7	38	91·0	18	41·0	23	28·1																		1·42	+0·38	1·00	5	26	0	0	0
Victoria	48 24	123 19	85	30·13	30·21	29·86	0·35	60·4	−0·1	19	79·5	23	46·2	16	18·3		71	4	3	2	0	0	0	16	32	1	1	7	62	8·4	24·0	2 S W	0·68	+0·07	0·47	3	28	0	3	0
Vancouver	49 17	123 5	136	30·03	30·23	29·87	0·36	62·0	+0·6	31	79·9	22	47·9	16	18·0		77	4	3	5	2	5	18	0	3	4	10	17	62	3·0	10·0	22 N	1·23	−0·18	0·68	7	24	0	0	0
Winter Harbour	50 32	128 3						57·9	+0·1	37	74·0	12 29	45·0	12 23	16·2																							0	0	0
Wilmer	50 31	116 11						58·1*	—	2	84·0	30	35·0	3	30·6																		1·67		0·06	3	28	0	2	1

YUKON :—																																							
Carcross	60	11	131	31	2171					—	—	5	85·0		31·0	23	—															1·31		0·95	4	27	0	0	0
Dawson	61	1	139	20	1200	30·19	30·57	29·85	0·72	53·3	−1·5	10	81·0	2	31·0	19	28·7					6	0	1	0	3	0	1	2	19	62	1·39	−0·19	0·35	9	22	5	0	0
White Horse	60	15	135	0	2075																																		
ALBERTA—																																							
Athabasca Landing	51	13	113	17	1650					53·9	—	8	78·0	18	29·0	27	25·6					3	0	2	0	2	3	17	1	0	31	2·42	—	0·49	7	21	0	2	0
Alix	52	21	113	10						54·3	—	6	77·0	18	34·0	27	21·5					1	7	4	0	6	3	2	7	1	37	3·21	—	0·90	14	17	0	0	8
Banff	51	10	115	31	1512	30·03	30·37	29·78	0·59	51·6	−3·1	16	76·2	18	31·2	23	25·0				7	3	12	0	5	1	18	2	2	19	62	3·76	+1·39	0·59	18	13	1	5	2
Blairmore	49	40	114	30	1225					53·4	—	1	78·3	17 31	28·7	21	28·8															3·18		1·23	12	19	0	2	0
Calgary	51	2	114	2	3389	29·99	30·32	29·62	0·70	51·3	−4·8	27	78·0	12	33·0	27	22·6				7	5	8	1	7	1	2	2	30	5	62	4·36	+1·81	1·48	11	20	0	0	0
Cardston	49	12	113	18						51·7	—	7	86·0	17	30·0	21	30·7															1·63	—	0·82	11	20	0	0	0
Delia										51·7	—	1	80·0	18	32·5	27	21·1															4·10	—	1·09	13	18	0	2	2
Didsbury	51	10	114	8	3300					55·1	—	9	78·0	18 30	31·0	9 27	23·0					1	2	1	2	2	2	2	16	0	31	6·17	—	1·66	13	18	0	0	0
aDunvegan	55	56	118	35	1305																																		
Daysland	55	52	112	17																																			
Edmonton	53	33	113	30	2158	30·00	30·42	29·67	0·75	56·7	−2·6	29	82·0	18	33·0	27	25·2				1	15	0	1	1	8	1	29	5	2	62	4·49	+2·17	2·17	11	13	2	3	1
Eckville	52	23	114	22																																			
Endiang	52	0	112	0	2795					51·1	—	1	79·0	19	31·7	26	22·8															2·39	—	0·53	10	21	0	0	0
Fort Vermilion	58	27	116	3						53·4		7	77·5	1	31·5	8-31	27·1															1·96		1·18	8	23	3	0	0
Gleichen	50	59	112	51	2952					51·1	−5·0	10	77·0	19	30·0	27	22·8															3·31		0·66	13	18	0	2	0
Gilt Edge	52	59	110	43						53·6		2	82·5	18	26·2	27	27·1															2·69		1·30	6	25	0	0	0
Hillsdown	52	14	113	29	2806					51·3		7	78·0	19	34·0	27	22·9					0	3	0	9	6	1	0	35	8	62	3·86		1·02	17	14	0	1	1
High River	50	35	113	53	3394					54·0	—	8	79·0	18 19	33·5	10	26·0															4·85	—	1·30	14	17	0	0	1
Harmattan	51	15	114	23	3500					50·7	—	4	77·0	19	28·0	9	25·9															5·17	—	1·15	14	17	1	5	0
Halkirk (Emsburg)	52	17	112	10						51·2	—	2	79·0	18	32·0	27	21·2					5	7	2	6	9	9	1	23	0	62	2·91		0·59	16	15	2	5	0
Lethbridge	49	12	112	51	2961					59·0	4·5	10	85·6	20	31·2	27	23·4															1·04		1·15	13	18	0	0	0
Lethbridge (Exp. Farm)	49	13	112	51						58·0		4	85·9	19	29·4	27	25·0															3·63		1·28	13	18	0	0	0
Lacombe	52	58	113	44	2783					53·4	—	4	80·0	18	29·5	27	26·1															2·63		0·95	13	18	0	0	0
Lawrence	50	16	113	26						52·1		4	83·0	12	30·0	24	31·1					11	0	4	5	0	5	2	4	3	31	2·23		0·48	13	18	0	0	2
Lunnford	54	33	114	19						53·3	-	2	79·0	18	28·2	27	26·8															2·66		0·72	12	19	0	1	2
Loveland	52	30	111	59						55·8	-	2	83·0	18	28·0	27	29·0					4	8	9	5	5	5	6	15	8	62	2·96		1·70	11	20	0	8	6
Medicine Hat	50	1	110	37	2161	29·95	30·10	29·63	0·77	62·0	4·2	27	92·0	19	31·0	27	28·9				6	5	5	1	8	18	8	2	3	12	62	2·2	0·72	0·68	14	17	1	4	1
Macleod	49	44	113	21	3128					57·2	5·7	14	82·0	18	35·0	22	23·2															2·79	0·88	0·67	13	18	0	0	[illegible]
Peace River Crossing	56	15	117	15						54·0	—	4	77·0	18	31·0	9	25·1															1·76		0·44	7	24	1	0	[illegible]
Pembina	54	12	114	0						53·5		4	80·0	19	32·0	23 27	21·5					2	7	4	7	5	13	16	6	2	62	3·91		0·85	11	20	0	0	0
Pakan (Victoria)	54	0	112	31						54·0	—	7	77·6	18	29·0	27	26·7					12	5	0	0	6	15	11	10	3	62	2·44		1·46	16	15	1	4	2
Pincher Creek	49	0	114	4	3750					55·6	4·2	13	77·0	18	33·0	22	21·6															6·66		1·85	14	17	0	0	0
Red Deer	52	16	113	49						53·3		12	79·0	18	32·0	27	21·2					3	1	1	6	7	4	1	7	1	31	3·30		0·70	14	17	0	5	3
Spirit River	55	10	118	47						51·3		2	72·0	18 24	27·0	11	25·6															1·87		0·32	10	21	0	0	0
Sundial	50	6	112	34						57·1	—	4	83·0	19	29·0	26	25·1															2·71		0·63	9	22	0	0	0
Threehills Creek	51	30	113	14						54·1	3·0	10	77·0	18 19	31·5	27 28	23·5															4·18		1·16	4	17	5	10	1
Wetaskiwin	52	58	113	23	2180					51·3	2·7	10	78·0	19	32·0	27	20·4															4·70		2·35	10	21	0	0	0
Waitefield	53	29	111	38	2000					54·3	—	6	81·0	18	28·5	27	25·7					5	4	4	12	4	2	21	18	26	93	3·10		2·24	16	15	7	13	4
SASKATCHEWAN—																																							
Battleford	52	44	108	20	1620	29·90	30·32	29·72	0·60	57·2	4·7	21	85·0	16	32·0	27	24·7		79			3	6	0	12	4	1	12	15	38	93	2·23	0·25	0·48	12	19	0	1	1
Broadview	50	23	102	33	1960					59·7		5	94·0	14	28·0	28	32·3																				0	0	0
Brownlee	50	45	106	0						58·1	—	2	87·0	13	35·0	23	27·5															1·79		0·65	11	20	0	1	[illegible]
Chaplin	50	26	106	39	2202					57·7	4·8	23	86·0	19	30·0	27	27·3					1	11	1	2	0	4	[illegible]	12	0	31	2·81		1·52	11	20	0	5	0
Cannington Manor	49	43	102	2	2061					57·9	−4·0	13	83·0	20	31·0	28	23·8															2·69		1·26	12	19	1	6	0
Crescent Lake	50	59	102	25	1658					55·6		7	83·2	11	29·2	28	26·8					4	3	1	2	4	5	7	4	7	31	3·60		1·20	15	16	5	4	4
Cumberland House	53	56	102	16						62·2		1	81·0	2	33·0	31	26·0															3·95		1·20	8	23	0	0	4
Duck Lake	52	54	106	20																																			
Estevan	49	12	103	4	1858					60·0	3·0	10	87·0	13	33·0	26	22·2					0	3	4	0	0	9	3	1	11	31	3·35		0·86	10	21	0	5	0
East End	49	31	108	19																																			
File Hills	51	4	103	31																																			
Grenfell (Brownhill)	50	23	102	53	1957					57·1	3·3	10	86·0	19	26·0	27	27·2					1	7	1	8	5	17	2	12	0	56	2·42	0·08	[illegible]	[illegible]	26	0	0	0
Glenbryan (Larchmount)	49	54	107	27						57·5	—	1	89·0	20	27·2	22	30·3					0	16	4	3	0	5	10	23	4	62	1·96		1·02	9	22	5	5	0
Humboldt	52	12	105	9						57·1		5	85·0	14	32·0	28	26·6															0·87		0·53	7	24	0	0	0
Hubbard (Drumague)	51	5	103	21																																			
Indian Head	50	28	103	40	1924					58·4	4·0	21	86·0	13	31·0	25	23·3					14	9	3	8	8	3	5	25	18	93	3·53	1·54	1·58	12	19	0	0	0
Kamsack	51	30	101	52																																			
Kelvinhurst										59·0		1	90·0	19	27·0	27	32·0															2·74		0·61	8	23	0	0	0
Lloydminster	53	18	110	0						53·4	—	6	81·0	19	26·3	27	26·1															1·25		0·50	10	21	0	0	0
Luseland	52	5	109	24						54·6	—	1	83·0	19	29·0	27	27·3															3·57		0·92	9	22	0	0	2
Lost River										56·2	—	1	83·0	20	31·0	29	27·2															1·76		0·60	8	23	0	0	1
Moose Jaw	50	21	105	35	1759	29·91	30·26	29·55	0·71	59·4	1·7	16	88·0	13	32·0	28	23·3		85			21	22	6	5	0	6	6	17	10	93	2·13	0·86	0·62	10	21	0	2	0
Moosomin	50	0	101	37	1884					[illegible]	—	11	86·0	13	31·0	28	25·0					2	0	3	1	6	6	5	5	0	31	2·16	0·71	1·45	4	27	0	0	0
Muenster (St. Pete 's M·nastery)	52	0	105	0	1870					55·6		5	81·0	13 19	33·0	26	21·8					0	7	0	6	0	17	1	0	0	31	1·68		0·73	5	26	3	3	0
Melfort	52	17	104	30						56·6	—	2	82·5	19	31·4	27	26·2															2·65	—	1·01	12	19	0	1	0
Maple Creek (Divide)	49	55	109	28						51·6	—	2	82·6	19	26·2	22	26·8															1·87		0·49	9	22	0	1	
Onion Lake	53	52	109	59						52·2	—	4	76·0	15-22	28·0	28	33·6															2·17		1·02	13	18	0	10	[illegible]
Oliver	54	16	108	10						56·2		2	86·0	19	29·0	27	26·2					2	4	7	3	1	0	3	4	0	24	1·81	—	0·58	7	24	1	1	0
Pense (Gatesgarth)	50	20	105	0	1879					57·2	—	13	84·0	14-20	30·0	28	30·3					1	5	0	7	6	5	2	5	0	31	2·67	−0·80	0·76	10	21	0	[illegible]	[illegible]
Prince Albert	53	10	106	0	1132	29·96	30·21	29·70	0·51	57·7	1·7	26	85·0	19	33·1	27	26·2		83			1	2	1	3	3	2	1	3	10	62	[illegible]	[illegible]	1·16	17	14	0	2	0
Prince (Meota	51	0	108	24	1700					54·5	—	5	83·0	13	28·0	27	23·3															1·58		0·40	11	20	0	2	[illegible]
Qu'Appelle	50	30	103	47	2115	29·97	30·31	29·61	0·70	57·0	5·1	27	84·0	13	30·0	28	23·1		81			5	9	3	6	7	8	8	16	0	62	3·53	1·67	1·10	13	18	0	2	0

PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA, AUGUST, 1911.

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

STATION.	Latitude N.	Longitude W.	Elevation above sea level, in feet.	Pressure. Mean reduced.	Pressure. Highest.	Pressure. Lowest.	Pressure. Range.	Temperature. Mean.	Temperature. Difference from average.	Temperature. Years observed.	Temperature. Highest.	Temperature. Date.	Temperature. Lowest.	Temperature. Date.	Temperature. Mean daily range.	Mean temperature of dewpoint.	Mean relative humidity.	Mean amount of cloud.	No. of days completely clouded.	Direction of wind from. N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.	Total number of observations.	Velocity of wind. Mean miles per hour.	Highest days velocity.	Date and direction from.	Precipitation. Amount.	Difference from average.	Heaviest fall in month.	Days with .01 or more.	No. of fair days.	No. of aurorae.	No. of Canadian storms.	No. of fogs.
SASKATCHEWAN—*Con.*				in.	in.	in.	in.																																
Regina	50	27	104	37	1885																											2·90	1·24	1·00	9	22	0	0	0
Rathmullen	51	20	108	57																												2·52		0·75	11	21	0	3	0
Rosthern	52	40	106	20	1657																											1·79		0·98	7	24	0	1	0
Swift Current	50	20	107	15	2439	30·01	30·38	29·70	0.68	58·7	5·3	25	86·0	19	33·0	12	55·0	..	75	..	8	1	6	5	13	11	18	2*	2	93				2·38	0·49	0·44	12	19	0	4	1
Saskatoon	52	15	106	40	1571					58·2	2·0	11	85·2	11	33·8	12	53·4															3·18	1·01	0·76	10	21	0	1	0
Strassburg	51	5	104	56						58·0		2	86·0	13	35·0	26	26·4															2·54		0·67	8	23	0	0	0
Scott (Hearts Hill)	51	50	109	30																																			
Scott (Ex. Farm)								55·1	—	1	84·0	19	29·5	27	26·3																	2·71		0·76	13	18	0	1	0
Stanley Mission	55	27	104	37																																			
The Pas	53	49	101	15	889	29·96	30·26	29·67	0.59	57·6		2	81·0	19	31·0	25	21·6		81		3	2	4	3	5	0	35	9	1	62				2·35		0·44	8	23	1	0	0
Wasesa	53	6	100	29				53·2		1	79·0	12	26·0	27	25·9						0	2	2	3	1	2	15	6	0	31				0·80		0·21	5	26	2	0	0
Yorkton	51	11	102	29				57·2		3	85·0	11	31·0	26	25·6																	3·20		2·13	8	23	0	0	0
Yarbo (Fairfield)	50	39	102	4				56·6	—	1	86·0	11	28·0	26	27·5						0	5	1	1	3	0	4	10	7	31				1·47		2·25	13	18	7	3	2
Yellow Grass	49	19	101	9				58·1	—	1	85·0	11	30·0	28	27·1																	1·26		0·73	8	23	2	2	0
MANITOBA																																							
Almasippi	49	11	99	20				61·7		9	92·0	14	35·0	28	26·8																	2·48		0·93	10	21	0	7	0
a Aweme (St. Alban's)	49	12	99	33	1180	28·78	29·07	28·53	0.54	62·1	+2·1	26	93·5	13	31·5	28	26·9															1·13	2·20	1·10	5	16	8	5	0
Brandon	49	51	99	57	1176			60·1	−2·4	23	87·7	13	32·0	28	24·7			5	2	1	10	5	9	0	11	11	18	28	93	4	1		5·84	3·93	1·48	13	18	9	5	0
Berens River	52	18	97	23	710			61·9		5	82·0	15	38·0	30	19·5																	1·21		0·80	2	20	0	0	0
Birtle	50	25	101	1	1703																																		
Carberry	49	52	99	20	1258			—		7																						2·78		0·97	9	22	0	3	0
Carman	49	31	98	0	872			60·2		8	88·0	15	39·0	28	31·5	0																2·13		0·78	11	20	0	0	0
Cypress River	49	33	99	3	1232			59·1		6	89·0	11	32·0	22	28·2	7	0															2·17		0·65	12	19	0	0	0
Dauphin	51	8	100	2	957			60·5		1	81·0	11	31·0		26·2	1	6															3·18	—	1·35	10	21	0	0	0
Hillview	49	55	100	33	1400			59·1	−1·6	26	85·0	13	29·0	31	28·2	1	9			1	1	17	16	2	7	7	20	13	11	0	93				6·82	−1·90	1·78	11	22	1	2	0
Minnedosa	50	15	99	50	1630	29·98	30·10	29·45	0.53	58·7	+2·6	28	85·5	13	32·0	28	25·0					2	3	1	5	0	0	1	7	13	62				5·72	−3·30	1·53	13	18	6	2	0
Morden	49	11	98	6	978			61·3		7	87·5	15	35·0	29	23·1							13	3	2	2	1	12	8	8	13	62				3·01		0·57	10	21	0	5	0
Moose Horn Bay (Akkeroille	51	15	99	33				59·8		2	93·5	11	33·7	26	24·9							12	7	2	0	7	1	7	8	18	62				1·69		1·20	16	15	11	2	0
Ninga	49	14	99	51	1649			59·4		1	88·0	13	35·0	28	23·7																	2·11		1·16	7	24	1	1	0
Oakbank	49	57	96	42	800			59·8	1·0	16	83·5	14	37·5	29	29·0	0						6	0	2	0	3	2	7	11	0	31				2·18	0·05	1·31	11	20	0	1	0
Pipestone	49	31	100	58	1400			60·8	3·9	12	87·0	15	35·0	28	25·2																	3·24		1·20	14	27	1	0	0
Portage la Prairie	49	57	98	17	839			61·4	2·2	20	86·0	13	37·0	25	27·2	8																2·58	0·18	0·82	8	23	0	0	0
Portage la Prairie (2)	49	56	98	17				61·4		5	88·0	14	38·5	26	22·9	0																3·23		1·31	9	22	0	0	0
Pierson	49	11	101	5	1531			59·0		6	88·0	14	33·0	22	28·2	1																3·58		2·30	8	23	0	0	0
Stony Mountain	50	10	97	11	803			61·2		31	89·0	14	36·0	26	29·2	6	5					11	9	0	0	14	7	6	10	0	60	11	IV					3·28	0	0	0
Swan River	52	6	101	15	1112			58·7		1	85·0	12	33·0		25·2	8	0															3·68		1·53	11	20	0	0	0
Treherne	49	39	98	40	1212			61·1		16	88·0	13	36·0	28	24·7																	3·74		1·25	12	19	2	5	0
Virden	49	51	100	55	1141			61·1		8	88·0	14	34·0	28	27·0																	2·80		1·50	5	26	0	0	0
Winnipeg	49	53	97	7	760	29·98	30·29	29·51	0.78	63·0	0·1	38	88·5	14	39·8	26	22·8					12	3	1	11	9	6	9	9	2	62				2·33	0·01	0·83	12	19	1	2	0
ONTARIO																																							
Alton	43	51	80	5	1250			63·9		25	92	2	1	33·0		30	30·1															1·07		2·00	9	22	0	8	0
Aurora	43	57	79	24	886			67·2		1	90·5	5	36·5		30	25·6																1·31	0·85	0·16	12	19	0	2	0
Agincourt	43	47	79	16	580			69·5		15	91	2	6	1·3		30	23·6					6	1	31	3	1	10	26	15	0	93				1·59	−0·11	0·40	10	21	1	6	1
Barrie	44	23	79	41	820			67·0		33	86·0	1	11·9		3	20·0					1	0	5	2	8	8	13	3	5	27	22	93	1			3·81	1·28	2·20	10	21	1	6	0
Beatrice	45	8	79	20	800			64·9		36	90·0	1	31·0		30	26·5					4	2	7	0	1	9	4	6	2	13	51	93				1·33	−1·51	0·64	6	25	0	3	0
Bruce Mines	46	18	83	55	595			64·0		3	83·0	5	11	37·0		24	21·7															2·67		0·92	0	27	2	3	2
Birnam	43	2	81	55	690			68·2		29	89·0	2	8	40·0		30	19·8					11	7	15	8	8	2	1	1	6	62				2·14	0·26	0·96	6	25	1	1	0
Brantford	43	10	80	21	750			69·0		27	91	0	10	44	0	29	23·3															1·62		0·41	0	30	6	5	0
Bloomfield	43	59	77	21	260			69·1		11	90	0	2	43·0		30	22·0															0·95		0·20	7	24	0	0	0
Bancroft	45	1	77	50				65·0		17	91	0	7	32·0		30	29·1															1·60	2·31	0·40	3	28	0	1	0
Copper Cliff	46	30	80	59				65·2		4	9	0	7	39·0		30	23·4															1·40		1·13	4	27	0	0	0
Clinton	43	32	81	37				66·9		9	91·0	2	43·0		29	20·6						10	1	6	6	12	6	3	13	2	62				2·94		1·25	9	22	1	2	0
Coldwater	44	38	79	40	690																																		
Cottam	42	7	82	45	696			69·2	+0·3	21	91·0		40	39·0		29	28·0					7	1	7	15	20	5	7	0	0	62				1·96	−0·56	0·85	8	23	0	0	2
Chatham	42	23	82	12	595			70·1		26	91	0	10	44·0		30	21·7															1·61	−0·13	0·50	6	25	0	0	0
Cochrane	49	2	81	0	930																																		
Collingwood	44	31	80	2				66·6		16	95·0	2	43·0		29	26·3																3·00	0·10	1·00	12	25	0	0	0

ONTARIO—*Concluded.*																																										
Elora	43	41	80	24	1274					67·2		14	92·0	1	39·0	30	27·1																		5·07	+1·95	2·87	12	19	0	0	0
Gravenhurst	44	51	79	20						65·4		40	88·0	7	31·0	30	25·3			3	1	14	0	5	13	13	7	7	16	18	93	II	IV	8 SW	3·01	−0·29	2·14	7	21	3	5	0
Guelph	43	33	80	16	1050					67·8	+3·5	24	89·0	1-5	41·0	29-31	23·0																		3·63	+1·18	1·18	11	20	0	0	0
*a*Grimsby	43	13	79	36						70·1	—	2	89·0	6-23	48·0	31	20·4																		2·20		0·48	9	22	0	0	0
Haileybury	47	29	79	39	687	29.97	30.42	29·56	0·86	65·0		20	90·8	1	36·9	30	21.4					6	2	2	1	9	10	15	8	9	62	I	IV	--	3·98	+1·11	1·36	16	15	9	7	0
Hamilton	43	16	79	51	303					69·8		37	92·0	5-7	48·0	31	19·7																		1·35	−0·78	0·67	3	28	0	1	0
Haliburton	45	1	79	8	1050					65·6		24	96·0	5	31·0	30	29·7																		4·92	+2·32	2·87	7	21	1	7	0
Huntsville	45	19	79	8						65·6	—	4	88·0	7	35·0	30	24·6																		—	—	—	—	—	0	0	0
Kenora	49	48	94	32	1102					61·1		10	89·0	13	37·0	25	27·3																		4·35	—	1·41	12	19	5	3	5
Kakabeka Falls	48	29	89	26	912					59·2	—	3	84·0	13-14	32·0	30	27·4																		2·97		0·95	9	22	2	3	4
Kingston	44	13	76	29	285	30·00	30·36	29·67	0·69	69·8	+3·3	37	86·4	1	46·0	30	11·5					0	6	2	10	4	21	6	12	1	62				3·00	+0·06	1·07	12	19	0	4	0
Kinmount	44	45	78	38	920					61·5		12	87·0	4	33·0	23	27·3																		4·30	+1·57	1·25	7	21	0	0	0
Lucknow	43	56	81	30	908					61·8		25	89·6	1	37·4	30	25·2																		2·49	−0·36	1·14	8	23	3	6	0
Lake Talon	46	15	78	48						65·6		17	91·5	1	30·0	30	26·0																		1·58	−1·55	0·83	6	25	3	6	2
London	42	59	81	13	808	30·01	30·31	29·76	0·55	68·7		27	94·5	10	39·0	30	25·3			4	1	0	10	3	25	0	3	3	19	0	93				3·43	+0·99	1·40	6	25	0	4	0
Lakeside Home	43	40	79	24						67·1	—	7	88·0	8	49·0	8-20	16·5																		—	—	—	—	—	0	0	0
Lorne Park	43	32	79	37						71·2	—	3	97·0	7	44·0	29	28·7																		1·34	—	0·50	8	23	0	0	0
Lindsay	44	20	78	45	872					68·7	—	32	92·0	6	41·9	30	26·0			1	1	6	3	1	2	12	16	14	17	22	93	I	III		1·11	−1·39	0·39	7	21	0	3	4
Lakefield	44	25	78	15	850					—	—	28	89·0	18	42·0	30	—																		1·31		0·58	9	22	0	5	0
*Midland	44	44	79	53	750					75·2	—	4	88·0	7	55·0	17-25																			2·09	−0·92	0·80	6	25	0	1	0
Madoc	44	30	77	29	575					68·2	—	7	93·0	1	39·0	30	25·6																		1·19	—	0·30	12	9	1	10	0
Montague	44	56	75	57						69·3	—	2	95·0	4	39·5	30	25·6																		1·76		0·40	8	23	0	0	0
Montreal River	47	8	79	29						62·4	—	1	93·0	4	33·0	30	27·5																		1·49	—	0·31	10	21	0	4	0
Matheson	48	29	80	26						59·9	—	1	91·0	1	30·0	30	28·7					0	1	2	4	1	10	24	8	10	60				4·59	—	4·19	15	16	1	2	0
*North Bruce	44	23	81	25						64·9		23	92·0	7	43·0	29	—					12	0	6	1	29	15	23	7	0	93				1·60	−1·18	1·02	6	25	0	0	0
North Gower	45	8	75	43						—	—	9	—		38·0	30	—																		—	—	—	—	—	0	2	0
Owen Sound	44	34	80	55	597					—	—	33	—		39·0	31	—					15	1	0	4	37	4	0	4	0	62				—	—	—	—	—	0	0	0
Orillia	44	37	79	21	775																																					
Ottawa	45	26	75	42	294	29·99	30·50	29·68	0·82	68·8	+2·	27	90·0	1-26	43·0	30	20·5					0	1	1	3	9	13	22	8	2	62				1·30	−1·90	0·70	6	25	1	3	0
Port Arthur	48	27	89	12	614	29·98	30·31	29·50	0·84	60·0	+0·1	31	81·0	16	35·0	29	21·3					3	6	10	5	3	5	6	21	3	62				2·96	0·07	1·05	7	24	4	0	1
Port Stanley	42	40	81	13	592	30·00	30·29	29·77	0·52	66·8	+0·1	37	86·2	8	43·4	20	17·8					0	4	11	9	1	9	8	9	11	62				3·79	+1·26	1·36	10	1	0	5	1
Port Dover	42	27	80	12	635					67·8		36	86·5	7	45·1	30	17·9					3	0	7	1	7	4	7	2	0	31				3·60	+0·38	1·54	12	19	0	0	0
Port Burwell	42	39	80	55	592					67·2	—	8	85·0	4	45·0	30	16·7																		1·46	—	2·04	8	23	0	0	0
Parry Sound	45	19	80	0	635	30·01	30·39	29·74	0·65	67·0	+2·8	36	90·0	1-7	38·0	30	24·3					2	5	3	9	4	13	12	9	5	62				1·82	1·18	0·38	10	21	1	2	0
Point Clark	44	5	81	44	595					—	—	39	—	—	—	—	—					16	5	5	4	14	4	8	5	1	62				2·02	0·27	0·60	5	26	0	3	0
Pelee Island	41	50	82	35	585					77·0		27	92·0	2	60·0	22	14·1																		7·61	+5·65	4·00	6	25	0	0	0
Paris	43	12	80	25	840					69·7		22	94·0	10	43·0	30	23·7																		1·91	−0·52	0·45	6	25	0	6	0
Peterboro	44	17	78	19	722					67·7		41	87·0	7	39·0	30	23·4																		1·46	−0·94	0·75	5	26	0	3	1
Porcupine	48	29	81	18																																						
Providence Bay	45	40	82	14						—	—	1	83·0	4	30·0	13-19	—																		0·80		0·28	5	26	0	2	1
Ronville	45	15	78	57	1038					64·2	—	4	86·0	6	34·0	29	25·6																		1·23		0·28	10	21	0	0	0
Renfrew	45	26	76	34	416					68·3		22	93·7	1	35·0	30	26·1																		3·38	1·76	0·91	10	21	0	6	2
St. Catharines	43	9	79	17	347																																					
Stonecliffe (Rockliffe)	46	9	78	6	557	29·98	30·43	29·67	0·76	65·3	+2·6	34	91·0	1	38·0	29-30	25·8					1	2	2	2	0	0	26	1	28	62				2·79	−0·17	1·00	11	2	0	0	6
Southampton	44	30	81	21	656	30·04	30·39	29·76	0·63	65·8	+0·9	35	91·6	1	40·3	30	18·6					21	5	6	6	20	0	2	2	0	62				4·08	−1·45	0·44	11	20	1	3	0
*Sarnia	42	59	82	24	586																																					
Stratford	43	23	81	0	1191																																					
Stony Creek	43	13	79	45	292					69·4		27	94·0	5	46·0	31	21·3			3	1	1	25	14	2	0	33	12	6	0	93	II	IV	2 SW	1·69	0·39	0·59	6	25	0	3	0
Schreiber	48	50	87	15						56·5	—	8	76·6	16	29·8	30	19·5																		6·82	—	3·66	12	19	2	5	1
Shelburne	44	5	80	47						63·0		1	85·0	2	35·0	30	21·9																		3·61	—	1·40	10	21	0	0	0
Toronto	43	40	79	24	350	30·00	30·31	29·73	0·61	69·3	+2·1	70	89·8	8	47·2	30	20·2					10	0	21	0	6	5	13	4	3	62				2·12	0·24	1·14	12	19	1	10	1
Uxbridge	44	5	79	8	886					66·3	—	7	89·0	4 5	38·0	30	26·9																		2·45		0·80	7	21	0	0	0
Uplands	45	48	79	25						62·3		25	86·0	5 7	24·7	30	29·5					7	0	1	0	11	0	12	0	0	31				0·89	2·02	0·32	5	26	0	5	0
Ursa	44	54	78	18																																						
White River	48	35	85	16	1252	29·96	30·35	29·59	0·76	56·8	−0·4	22	82·0	11	31·0	30	23·8					5	0	4	2	1	7	10	5	28	62				4·02	0·99	1·80	10	21	0	4	0
Woodstock	43	8	80	47	980	30·00	30·31	29·74	0·57	66·8		39	90·0	10	41·0	20	21·9		72	6	2	7	6	3	18	6	17	7	29	0	93	7 4	17 3	8 NW	2·40	−1·44	0·51	7	24	0	0	0
Welland	42	59	79	17	577					69·6		23	92·0	1	48·0	30-31	19·3																		2·40	−0·08	0·50	10	21	0	0	0
Windsor	42	20	83	4	625					71·4		37	90·0	11	48·0	31	16·6																		1·31	−1·28	0·52	9	22	0	0	0
Wallaceburg	42	35	82	24						68·8	—	6	93·0	7	42·0	28	23·9																		1·28		0·70	8	23	0	0	0
QUEBEC—																																										
Abitibi	48	43	79	22						65·5		15	90·0	7	45·0	30				4	1	7	0	0	5	30	12	29	10	0	93	III	VI	8 W	2·42	−0·22	0·81	8	23	0	0	0
*Anticosti, E. Point	49	6	61	42	30					58·5	−0·3	28	71·0	8	48·0	18	—					4	5	5	1	6	18	14	21	16	93				1·69		0·22	4	27	0	0	5
*Anticosti, W. Point	49	52	64	32	30					58·2	+0·3	25	77·0	8	46·0	31	—					9	4	6	8	26	1	18	18	0	93				2·40	−0·95	0·88	6	25	0	0	1
Brome	45	10	72	36	678					65·0		31	88·0	7	36·0	30	23·9					17	2	2	7	20	3	31	6	2	93				3·80	0·43	1·10	10	21	0	1	0
*Bicquet	48	25	68	53						53·0		30	75·0	3	47·0	19	—					2	35	0	0	1	2	44	1	8	93				0·00		0·00	0	31	0	0	8
Clarke City	50	0	66	25						59·2	—	5	86·0	4	33·0	19	21·1					3	5	3	4	0	6	9	4	0	31				1·61		0·68	14	20	0	4	1
*Cape Chatte	49	6	66	45						60·0		29	71·0	9	52·0	15	—					0	1	14	0	4	3	40	0	31	93				1·42	−1·83	1·00	5	26	0	3	0
*Cape Magdalen	49	16	65	20	93					60·8		30	81·0	9	49·0	30						2	0	5	2	23	7	6	38	19	93				4·82	−1·01	1·04	7	21	1	0	4
Chicoutimi	48	25	71	5	150					65·9		26	90·6	4	38·7	31	21·2			6	1	0	4	0	34	0	15	3	1	3	93	III	VII	8 SE	1·13	−1·61	0·37	7	21	1	6	3
Chicoutimi West										61·5	—	1	86·0	5 8	35·0	31	21·6																		—	—	—	—	—	0	3	0
Cap Rouge	46	46	71	18						65·9	—	4	88·0	4-9	42·2	30	21·1																		2·76	—	0·66	11	20	0	0	0
Disraeli	45	55	71	21						65·2	—	2	93·0	5	40·0	26	28·0																		3·49	—	0·89	11	20	0	7	0
Father Point	48	31	68	19	20	29·93	30·43	29·56	0·87	58·4	+2·8	31	80·7	9	40·0	31	16·2					1	6	6	1	5	16	17	4	9	62				1·33	−2·05	0·35	6	25	1	1	2

PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA, AUGUST, 1911.

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

STATION.	Latitude N.	Longitude W.	Elevation above sea level, in feet.	Pressure. Mean reduced.	Pressure. Highest.	Pressure. Lowest.	Pressure. Range.	Temperature. Mean.	Temperature. Difference from average.	Temperature. Years observ'n	Temperature. Highest.	Temperature. Date.	Temperature. Lowest.	Temperature. Date.	Temperature. Mean daily range.	Mean temperature of dewpoint.	Mean relative humidity.	Mean amount of cloud.	No. of days completely clouded.	Direction of wind from. N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.	Total number of observations.	Velocity of wind. Mean miles per hour.	Highest day's velocity.	Date and direction from.	Precipitation. Amount.	Difference from Average.	Heaviest fall in month.	Days with 01 or more.	No. of days.	No. of thunder storms.	No. of days.
QUEBEC, *Concluded.*																																						
Lake Edward	47 39	72 14	1223					62 5		2	85 8		32 2		31 20	9																2 39		1 20	7	21	0	7	1
Montreal	45 30	73 35	187	29 97	30 36	29 62	0 71	69 7	+ 3 1	37	89 8		47 1		39 16	0				1	0	2	8	11	15	16	4	2	62				3 73	+ 0 28	1 21	10	21	0	0	0
Perkin's Mills	45 38	75 38																																				
Quebec	46 48	71 13	298	29 97	30 36	29 61	0 75	66 4	+ 3 4	37	88 0		47		30 19	4				0	16	3	5	3	14	17	3	0	62				2 31	+ 1 02	0 43	12	19	3	4	1
Roberval	48 31	72 13	362																																			
St. Anne de Bellevue	45 27	73 59						69 7		5	91 0		42 2		30 20	9																	3 82	— 1 25	1 21	10	21	0	0	0
Shawinigan Falls	46 34	72 43						64 4		8	91 0		37 0		30 23	0																	1 71	— 0 81	0 27	0	0	0	0	0
Sherbrooke	45 32	72 5	620					66 4		8	88 0		42 0		26 22	5																	3 13	— 0 79	0 43	18	0	1	2	
NEW BRUNSWICK																																						
Chatham	47 3	65 29	21	29 98	30 16	29 31	1 12	65 7	+ 1 1	37	92 0		41		31 20	5				0	3	11		0	16	21	8	1	62				6 32	— 2 32	2 61	14	19	0	2	0
Dalhousie	48 4	66 22	39					64 4		3	87 0		41		15 0	25	31 17	4		0	0	9		0	0	15	0	5	31				1 25	— 0 45	3 25	0	0	0	0	0
Fredericton	45 57	66 36	161	30 01	30 45	29 31	1 14	61 2		39	87 8	10	30 0		21 22	7			76	5	2	6	1	10	5	23	23	11	1	93	7 3	17	0 16 NW	1 05	— 0 08	2 84	5	26	1	3	0
Grand Manan	44 47	66 46	49	30 00	30 12	29 27	1 15	63 5	+ 1 9	27	79 0	6 7	50 0		30 15	8				1	1	5	3	5	11	12	8	10	62				2 81	— 0 51	1 02	8	23	0	1	8
Moncton	46 9	64 45	50					63 7		13	87 0	10	39 0		30 21	0				0	3	3	1	0	2	8	10	1	31				1 15	— 1 08	1 95	7	26	0	1	0
*Point Lepreaux	45 1	66 28	30					58 2		33	70 0		5		32 0		30			1	6	9	1	13	2	9	13	20	11	0	81	11	19		3 15	— 0 69	1 13	5	26	0	1	11
St. John	45 17	66 4	70	30 01	30 43	29 27	1 16	63 0	+ 1 8	38	80 3	5 6	50 0		31 13	1				3	3	3	12	14	2	6	7	12	62				3 15	— 0 70	1 19	9	25	0	2	6
St. Stephen	45 11	67 16	35					63 7		13	87 5	10	41 0		31					0	3	0	0	0	5	3	2	18	31				4 08	— 1 21	3 36	7	14	0	1	0
Sussex	45 38	65 38	60					63 7		11	86 0	3 5	42 0		25 23	2				0	3	0	0	0	5	3	2	18	31				4 62	— 2 01	2 61	14	25	0	0	0
NOVA SCOTIA																																						
Antigonish	45 38	61 59	50					65 0		1	87 0	13	38 0		31 26	1																				0	0	0
Halifax	44 39	63 36	88	0 00	30 13	29 21	1 22	65 4	+ 0 5	37	82 0	23	48 5		20 17	7				1	1	5	5	9	7	16	9	3	62				3 33	— 1 17	1 28	12	19	0	0	2
Port Hastings	45 39	61 32	15					61 8		3	19 86		3		19 0		31 17	7		0	0	0	3	2	15	0	11	0	31				2 25	— 0 32	1 25	0	0	0	0	
Parrsboro'	45 23	64 19	10					61 5		11	84 0	6	41 0		30 21	9																	3 18	— 0 84	1 53	4	25	0	0	0
Sydney	46 10	60 10	35	30 01	30 46	29 24	1 22	64 4	+ 0 9	38	86 0	5	36 4		31 19	1				3	1	4	4	1	20	16	5	8	62				1 68	— 1 61	0 67	8	23	0	0	16
*Sable Island, E. Point	43 58	59 46	25					65 7		28	79 0	11	49 0		23					1	8	0	12	5	26	0	31	0	93				1 14	— 3 23	1 02	30	28	0	0	11
Truro	45 22	63 18	77																																			
Windsor	44 59	64 6	100					66 4		9	88 0	7	44 5		31 20	8																	2 75	— 0 47	1 53	8	0	0	0	0
*Whitehead	45 5	61 8	20					61 5		29	72 0	6	50 0		29																			3 19	— 1 70	1 25	3	28	0	0	6
aWolfville	45 7	64 20		29 91	30 32	29 44	1 18	65 5		12	88 5	10	44 0		32 21	7				2	0	0	0	7	5	24	2	32	62				3 20	+ 0 27	0 95	7	24	0	0	2
Yarmouth	43 50	66 2	65	30 01	30 30	29 36	1 03	62 5	+ 1 7	31	80 5	5	48 1		12 11	6				3	1	3	5	5	16	6	9	11	62				2 61	+ 1 01	2 20	0	25	0	2	11
P. E. ISLAND																																						
Charlottetown	46 14	63 10	38	29 90	30 15	29 14	1 31	67 4	+ 2 3	36	90 0	5	44 5		31 17	3				2	1	5	2	10	15	11	8	3	62				4 25	— 0 38	1 42	8	25	0	1	0
Charlottetown (2)	46 14	63 7	75					66 0		2	87 0	5	45 0		31 18	5																	2 85	— 1 18	12 19	0	0	0	0	
Hamilton	46 2	63 18						66 8		11	84 0	9	45 0		31 13	7				0	0	0	7	0	14	9	1	0	31				3 41	+ 0 20	1 40	5	25	0	0	0
NEWFOUNDLAND																																						
*Amour Point	51 28	56 51						51 0		20	66 0	9	41 0		1					1	0	11	0	0	1	71	1	8	93				0 30	— 0 50	2 80	0	0	0	0	8
Burin	47 6	55 10	27	30 00	30 11	29 30	1 05	59 8		2	80 0	5	45 0	26	28 18	3				3	1	2	3	9	16	12	7	1	62				0 90	— 0 21	0 72	0	0	1	1	
*Cape Norman	51 38	55 52						58 3		28	81 0	12	43 0		2					2	1	3	12	3	1	38	6	0	93				1 10	+ 2 31	0 48	1	27	3	0	10
Fogo	49 43	54 17	30	29 90	30 31	29 23	1 08	61 8		2	75 0	1	43 0		2 13	1				1	3	12	1	6	8	25	8	3	62				1 00	— 0 35	0 74	0	0	0	1	
*Point Rich	50 42	57 25	35					58 6		27	70 0	9	49 0		30 —					5	17	0	7	2	6	53	3	0	93				2 12	+ 1 55	0 51	7	24	0	0	4
Port aux Basque	47 35	59 10	27	29 95	30 10	29 00	1 31	58 2	—	2	80 5	5	44 0		26 12	0				3	0	14	0	6	7	22	9	1	62				1 30	— 1 32	1 17	0	1	1	3	
St. John's	47 31	52 42	125	29 92	30 25	29 11	0 81	62 0	+ 3 3	39	80 0	3	45 0		31 15	9				5	8	2	2	7	27	13	0	0	62				0 62	— 3 03	0 21	7	21	0	2	2
BERMUDA—																																						
Prospect	32 17	64 46	151	30 13	30 30	29 88	0 15	78 4	— 1 0	21	89 0	5	69 0		1 11	3				3	2	7	10	13	10	6	7	1	62				7 21	— 1 20	1 90	15	16	0	7	0

PRECIPITATION AT STATIONS REPORTING RAIN, SNOW, WEATHER, &c., DURING AUGUST, 1911.

STATIONS.	RAINFALL.					SNOWFALL.				REMARKS.
	Amount in inches	No. of Days '01 or over	No. of Fair Days	Heaviest Fall in Month	Date	Amount in inches	No. of Days.	Heaviest Fall in Month	Date.	
BRITISH COLUMBIA—										
Alkali Lake	2·82	10	21	1·17	19					Thunder on 19.
Annis	1·11	7	24	0·50	7					Thunder on 1, 15, 19.
Beaver Lake	0·70	2	29	0·58	19					
Coquitlam	1·57	5	26	0·78	19					
Donman's Island	0·71	4	27	0·29	7					
Ferguson	2·02	7	24	0·47	8					
Goldstream Lake	0·76	1	27	0·16	19					
Hydraulic	2·21	7	24	0·92	20					
Hornby Island	0·75	3	28	0·40	7					
Jordan River	0·60	2	29	0·50	19					
Jordan River (Bear Creek)										
LittleQualicum(French Creek, V.I.)	0·87	3	28	0·59	19					
Monte Creek	1·06	6	25	0·80	7					
Naas Harbour	3·13	5	26	1·00	27					
Skidegate										
Shawnigan Lake	0·60	1	27	0·15	20					Thunder on 12, 23.
ALBERTA—										
Bardo	2·28	8	23	0·82	20					Thunder on 20.
Bismark	1·17	9	22	1·83	20					[20, Fog on 22.
Bruederheim	3·98	11	17	1·70	21					Aurora on 22, Thunder on
Bittern Lake	4·13	11	20	2·48	21					Thunder on 20.
Brooks	2·61	11	20	0·70	25					
Conjuring Creek										
Coutts										
Campsie	1·77	10	21	0·61	20					Thunder on 30.
Caldwell	4·37	13	18	0·93	3					[19, 25, 27, 28, 29, 30, 31.
Dorenlee	5·20	7	24	0·42	21					Thunder on 1, 10, 12, 14, 15, 18.
Dunstable	2·18	17	14	0·73	20					
Grassy Lake	2·50	1	30	2·50	11					
Jumping Pound										
Lacombe										Thunder on 21.
Loch Sloy	5·13	16	15	1·57	1					
Lyndon	6·29	9	22	1·26	6–7					1 inch snow fell on 20.
Lineham	1·50	11	19	—	—					
Macleod	3·61	10	21	1·13	7					Fog on 5, 9, 26.
Mayeroft	1·08	13	18	2·13	8					
Okotoks	3·56	8	23	1·47	7					Thunder on 15, 19.
Pekisko	5·51	13	18	2·28	7					
Ponoka	2·87	7	24	2·17	20					
Priddis										[Fogs,
Playle Creek	3·79	15	16	1·24	7					11 Auroras, 13 Thunder, 1
Sion	2·58	15	16	0·94	19					
Seven Persons	1·15	3	28	0·70	9					
Tilley										
Wabamun										
SASKATCHEWAN—										
Carmichael										
Coulee										
Elm Dow										
Forks Swift Current (Gull Lake)	1·77	7	24	0·83	1					
Gull Lake	1·83	6	25	0·51	7					
Gravelbourg	2·83	7	24	2·15	7					
Hanley										
Kindersley										Thunder on 15, 20, 31.
Last Mountain	2·51	10	21	0·53	26					
Maple Creek	1·61	9	22	0·77	8					
Meadow Lake	2·51	6	25	1·02	31					
Willow Creek										[on 12, 21, 31.
MANITOBA—										Aurora on 22, 24, Thunder
Cartwright	2·92	11	20	1·41	3					
Deloraine										Thunder on 12, 15, 30. [on 28.
Gretna	2·16	10	21	0·70	6					Thunder on 3, 14, 15, 21, Frost
Norquay	1·69	11	20	0·65	4					Thunder on 1, 15, 20, 30.
Rapid City	1·83	8	23	2·40	3					
ONTARIO—										Thunder on 1, 8, 27.
Deer Park	2·19	8	23	0·93	27					Thunder on 10, 14.
Dutton	1·73	6	25	0·48	10					Thunder on 1, 2, 7, 8, 15, 16, 18.
Emsdale	2·23	9	22	0·57	7					Aurora on 23, Thunder on 1
Georgetown	1·31	11	20	0·36	3					[2, 3, 6, 10, 16, 17, 18, 27, 28.
Grantham	2·13	11	20	0·54	4					
Grand Valley	3·14	13	18	0·87	6					
MacCue	1·77	5	26	0·75	15					
Orangeville	3·70	6	25	1·61	1					Thunder on 11, 15, 28.
Princeton	1·18	4	27	0·51	1					
Sydenham	1·60	5	26	0·75	18					
Strathroy	2·72	8	23	0·74	16					[16, 17, 18, 24, 27.
Watford	2·35	7	24	0·98	15					Thunder on 2, 5, 6, 7, 8, 15.
Westport	1·32	7	24	0·58	15					
Wooler	0·99	5	26	0·40	28					Thunder on 28.
Westminster	2·79	4	27	1·31	16					Thunder on 6. Fog, on 3
Wesley	2·57	10	21	0·58	1					[Frost on 30.
QUEBEC—										
Lucerne	1·32	6	25	0·48	8					Thunder on 8, 16, 27.
Perkins Mills	1·82	6	25	0·71	8					Thunder on 8, 14.
Quinze Dam	3·71	10	21	1·28	8					Thunder on 9.
Timiskaming	3·63	11	20	1·71	8					
NEW BRUNSWICK—										Fog on 8, 31.
Point Escuminac	2·44	6	25	1·08	17					
NOVA SCOTIA—										Thunder on 15, 19.
Kentville	3·23	5	26	1·07	19					
Liverpool	2·32	5	26	1·64	16					
Milton(Rapid Falls Mill)	2·16	4	27	1·62	16					
South Alton	3·83	7	24	1·41	19					
White Rock	3·77	7	24	1·06	16					

MEAN PROPORTION OF BRIGHT SUNSHINE REGISTERED IN EACH HOUR OF THE DAY IN THE MONTH OF AUGUST, 1911.

STATIONS.	Hours Ending																
	5 a. m.	6 a. m.	7 a. m.	8 a. m.	9 a. m.	10 a. m.	11 a. m.	Noon.	1 p. m.	2 p. m.	3 p. m.	4 p. m.	5 p. m.	6 p. m.	7 p. m.	8 p. m.	
Victoria		T	32	53	63	71	78	78	80	82	83	75	72	53	03		
Salmon Arm		22	53	62	61	72	73	71	76	76	69	71	67	59	23		
Nanaimo																	
Vancouver		15	36	41	48	46	51	57	56	68	72	76	72	59	25		
Agassiz			17	40	44	46	48	56	62	60	59	57	48	27	01		
Tranquille																	
Summerland		11	06	62	67	69	69	67	66	67	62	57	58	45	01		
Kamloops	01	26	42	47	51	61	62	73	76	69	61	66	53	50	19		
Edmonton		16	40	42	51	46	58	69	62	59	65	65	52	55	25		
Lethbridge	01	13	58	60	60	63	69	72	66	62	66	63	66	53	11	02	
Lacombe		29	48	50	47	58	61	62	63	62	58	65	60	53	11	01	
Medicine Hat		26	63	67	75	78	77	75	73	67	67	50	67	52	27		
Fort Vermilion		02	22	43	48	57	64	68	71	66	63	65	62	44	20		
Battleford			07	36	53	56	56	53	48	42	38	40	41	37	07		
Indian Head		18	48	55	64	65	65	59	67	62	62	63	65	48	21		
Moosejaw	03	11	66	73	71	74	77	79	76	76	71	69	67	63	30		
Scott		33	58	67	73	81	76	75	72	76	82	73	71	64	14	01	
Rosthern		22	57	72	77	77	81	76	80	77	73	72	64	61	21	05	
Brandon		03	41	74	76	79	79	77	69	70	60	60	62	55	13	05	
Winnipeg		12	40	60	70	72	72	74	75	75	68	71	68	60	37	01	
Haileybury	T	42	64	71	76	77	80	78	70	73	74	61	57	57	40	01	
Gravenhurst		01	26	27	44	67	77	72	74	68	67	64	51	33	17	01	
Woodstock		10	45	53	67	73	71	71	73	70	69	57	53	44	06		
Lindsay			04	30	62	74	76	70	78	81	76	39	43	38	20		
Barrie		04	53	70	73	78	77	79	74	73	67	63	58	48	01		
Toronto		T	20	63	70	75	77	80	83	83	78	73	65	48	32		
Kingston		15	53	63	65	67	66	70	74	73	69	61	54	47	21	T	
Ottawa		20	52	63	65	75	83	83	87	85	72	69	72	58	46		
Montreal		25	53	68	72	77	75	72	80	84	81	81	71	59	05		
Quebec		05	35	53	62	73	78	73	73	72	70	60	56	45	15		
Sherbrooke		17	55	68	70	79	70	66	71	66	59	54	52	47	21		
Fredericton	T	16	40	53	56	62	65	66	67	63	56	50	52	49	35	03	
Charlottetown		21	43	47	51	62	66	64	71	71	66	66	56	48	21		

—	Victoria.	Salmon Arm.	Nanaimo.	Vancouver.	Agassiz	Tranquille.	Summerland.	Kamloops.	Edmonton.	Lethbridge.	Lacombe.	Medicine Hat.	Ft. Vermilion.	Battleford.	Indian Head.	Moosejaw	Scott	Rosthern.	Brandon.	Winnipeg.	Haileybury.	Gravenhurst	Woodstock.	Lindsay.	Barrie	Toronto.	Kingston.	Ottawa	Montreal.	Quebec.	Sherbrooke.	Fredericton.	Charlottetown.
Registered duration in hours.	258	266	..	225	178	..	217	237	218	261	235	267	211	151	236	233	232	283	216	265	281	213	236	211	253	259	218	279	280	236	216	227	231
Percentage of possible duration	58	60	..	50	40	..	76	53	48	59	52	60	46	33	53	65	65	63	55	60	65	49	55	50	59	60	57	63	69	54	56	52	54
Difference from average %	+1				5					..			..	23	+4				−2	−0			0	−4		−0	+1	+11	+11			+2	
Maximum percentage in one day %	81	92	..	92	83	..	92	92	89	98	93	91	86	90	90	95	92	90	84	92	96	79	93	80	86	93	93	92	90	84	92	91	91
Date of maximum	21	9		26	25		27	17	17	18	12	18	26	13	12	11	27	10	31	16	19	13	17	9	11	29	13	13	12	5	21	12	18
No. of days completely clouded	2	3	..	4	7	..	4	2	2	2	3	1	3	0	1	1	0	0	1	3	0	3	2	0	0	1	7	0	0	1	1	4	6

Aurora recorded:—

Where the class of aurora is noted by the observer, it is given, (I), being the brightest, (IV) the feeblest in brilliancy.

2. Aweme II. Aitkensville III. Waitefield IV.

3. Sion, Haileybury III, Glenbryan I. Muenster I. Waseca,

4. Aitknsville IV.

5. Crescent Lake III, Muenster II.

6. Muenster,

12. Aitkensville IV, Oliver.

13. Sion,

14. Esterhazy IV.

15. Threehills Creek IV, Halkirk

16. Aweme IV, Aitkensville IV, Schreiber, Threehills Creek III, Gravenhurst IV, Haileybury III, Quebec IV, Lake Talon IV.

17. Haileybury IV.

18. Kenora IV, Sion, Dawson IV, Crescent Lake IV.

19. Hillview IV, Treherne III, Aweme II, Aitkensville III, Kenora III, Fredericton I, Haileybury IV, Dawson IV, Esterhazy IV, Lake Talon.

20. Bruce Mines IV, Sion, Haileybury IV, Glenbryan I.

21. Sion, Waitefield III, Gravenhurst IV.

22. Cartwright III, Aitkensville IV, Waitefield III, Bruederheim, Haileybury IV, Dawson IV, Glenbryan II, Yellow Grass, Oliver, Esterhazy III, Sion IV.

23. Georgetown IV, Treherne II, Aweme II, Ninga, Aitkinsville II, Bruce Mines I, Clinton I, Haliburton I, Kenora II, Kakabeka Fal's II, Oliver, Esterhazy IV, Chilliwack III, New Westminster, Salmon Arm, Lucknow IV, Madoc III, Montague, Schreiber, Cape Magdalen, Peace River Crossing, Sion III, Waitefield II, Gravenhurst III, Haileybury II, Parry Sound III, Southampton III, Toronto, IV, Father Point III, Quebec III, Winnipeg II, Dawson IV, Glenbryan II, Yellow Grass, Crescent Lake II, Barrie III, Lake Talon.

24. Cartwright, Aweme III, Aitkensville IV, Agincourt II, Birnam III, Kenora IV, Matheson III, Harmattan IV, Sion, Halkirk, Haileybury IV, Ottawa II, Port Arthur I, Cannington Manor, Esterhazy IV.

25. Aitkensville IV, Kenora IV, Kakabeka Falls IV, Dawson IV, Crescent Lake IV, Esterhazy IV.

26. Aweme III, Threehills Creek III, Sion II, Waitefield III.

27. Aweme II, Pakan IV, Waitefield IV, Crescent Lake IV.

28. Aitkensville III, Esterhazy III, Fort Vermilion III.

29. Threehills Creek, III, Sion,

30. Aweme III, Lucknow IV, Threehills Creek III, Sion III, Waitefield II, Haileybury III, Glenbryan II, Oliver, Quill Lake, Fort Vermilion IV.

31. Lucknow IV, Chicoutimi, Sion IV, Quebec IV, Waseca, Fort Vermilion III.

Thunder recorded :

1. Rapid City, Georgetown, Emsdale, Deer Park, Brantford, Bruce Mines, Haliburton, Midland, Montreal River, Uplands, Fruitvale, Threehills Creek, Alix, Hillsdown, Sion, Halkirk, Red Deer, Waitefield, Dunstable, Toronto, White River, Cannington Manor, Enderby, Hope, Princeton, Quesnel, Salmon Arm, Summerland, Grand Forks, Annis, Fort St. James, Lake Talon.

2. Georgetown, Emsdale, Westport, Treherne, Aweme, Almasippi, Beatrice, Haliburton, Lucknow, Madoc, Paris, Stony Creek, Uplands, Chicoutimi, Chicoutimi East, Sion, Waitefield, Gravenhurst, Port Stanley, Toronto, Pemberton Hatchery, Princeton, Grand Forks, Chilcoten, Barrie, Lake Talon.

3. Norquay, Georgetown, Haliburton, Lucknow, Madoc, Renfrew, Point Clark, Chicontimi, Lake Edward, Waitefield, Melfort, Nelson, Alberni, Hope, Princeton, Grand Forks, Berens River, Chilcoten, Lost River, Barrie.

4. Lucknow, Uplands, Harmattan, Loveland, Gravenhurst, Ottawa, Southampton, Chilliwack Hope, North Nicomen, Grand Forks, Lost River, Lake Talon.

5. Westport, Aurora, Madoc, Peterboro, Renfrew, Waitefield, Princeton, Rossland, Tobacco Plains, Lakefield, Lost River.

6 Georgetown, Westport, Wesley, Morden, Almasippi, Agincourt, Brantford, Haliburton, Madoc, Montague, Paris, Renfrew, Lake Edward, Shawinigan Falls, Lindsay, Montreal, Quebec, Bella Coola, Alton, Clarke City.

7. Emsdale, Westport, Aweme, Birnam, Brantford, Bruce Mines, Kenora, Lucknow, Paris, Schreiber, Stony Creek, Chicoutimi, Sherbrooke, Haileybury, Port Stanley, Southampton, Toronto, Chatham, N. B., Glenbryan, Divide, Yellow Grass, Chaplin, Cannington Manor, Rossland, Lakefield, Clarke City.

8. Emsdale, Westport, Deer Park, Perkins Mills, Agincourt, Kakabeka Falls, Madoc, Montague, Montreal River, Peterboro, Providence Bay, Renfrew, Uplands, Chicoutimi East, Lake Edward, Shawinigan Falls, Waitefield, Lindsay, Gravenhurst, Ottawa, Parry Sound, Toronto, Montreal, Quecee, Kingston, Salmon Arm, Lakefield, Barrie, Lake Talon.

9. Bruce Mines, Kenora, Kakabeka Falls, Lucknow, Providence Bay, Chicoutimi, Waitefield, Southampton, White River, Timiskaming, Quinze Dam.

10. Georgetown, Dutton, Birnam, Lucknow, Madoc, North Gower, Peterboro, Point Clark, Pakan, Loveland, Sion, Waitefield, Dunstable, Muenster, Alberni, Chilliwack, Hope, New Westminster, North Nicomen, Princeton, Chilcoten, Campsie.

11. Princeton, Paris, Peterboro, Stony Creek, Lake Edward, Gleicben, Threehills Creek, Sion, Lindsay, London, Port Stanley, Toronto, Glenbryan, Enderby, Hope, Salmon Arm, Wilmer, Lost River.

12. Cartwright, Gretna, Treherne, Morden, Aweme, Almasippi, Kenora, Athabasca Landing, Sion, Dunstable, Divide, Crescent Lake, Massett, Shawnigan Lake, Campsie, Clarke City.

13. Treherne, Oakbank, Montreal River, Matheson, Chicoutimi East, Threehills Creek, Alix, Hillsdown, Loveland, Halkirk, Red Deer, Waitefield, Haileybury, Last Mountain, Glenbryan, Divide, Yellow Grass, Crescent Lake, Chaplin, Cannington Manor, Saskatoon, Lost River.

14. Norquay, Dutton, Ninga, Kakabeka Falls, Schreiber, Brome, Lake Edward, Threehills Creek, Harmattan, Loveland, Sion, Halkirk, Dunstable, Quebec, Quinze Dam, Crescent Lake, Chaplin, Esterhazy.

15. Rapid City, Norquay, Gretna, Emsdale, Westport, Princeton, Kentville, Almasippi, Ninga, Agincourt, Birnam, Brantford, Madoc, Montague, Paris, Renfrew, Uplands, Fredericton, Brome, Sherbrooke, Moncton, Harmattan, Pekisko, Dunstable, Haileybury, London, Ottawa, Port Stanley, White River, Montreal, St. John, N.B., Chatham, N.B., Cannington Manor, Annis, Berens River.

16. Georgetown, Emsdale, Westport, Perkins Mills, Birnam, Brantford, Clinton, Haliburton, Lucknow, Madoc, Montague, Montreal River, Matheson, Paris, Point Clark, Sherbrooke, Point Lepreaux, Threehills Creek, Haileybury, London, Port Stanley, Southampton, Toronto, White River, Kingston, Yarmouth, Glenbryan, Chaplin, Rathmullen, Lost River, Lake Talon.

17. Georgetown, Westport, Agincourt, Lucknow, Matheson, Point Clark, Harmattan, Haileybury, Toronto, Montreal, Lake Talon.

18. Georgetown, Emsdale, Westport, Hillview, Treherne, Morden, Almasippi, Aitkensville-Agincourt, Beatrice, Aurora, Birnam, Haliburton, Madoc, Brome, Chicoutimi, Lake Edward, Sherbrook, Pt. Lepreaux, Sion, Lunnford, Red Deer, Dunstable, Gravenhurst, Haileybury, Minnedosa, Parry Sound, Toronto, Quebec, Kingston, Cannington Manor, Campsie, Lakefield, Barrie, Hamilton.

19. Kentville, Ninga, Fredericton, Brome, Pt. Lepreaux, St. Stephen, Gleichen, Threehills Creek, Athabasca Landing, Hillsdown, Blairmore, Loveland, Sion, Halkirk, Waitefield, Pekisko, Dunstable, Minnedosa, Montreal, Grand Manan, Charlottetown, Yarmouth, Muenster, Oliver, Prince, Golden, Rossland, Salmon Arm, Wilmer, Annis, Chilcoten, Campsie, Lost River, Alkali Lake.

20. Cartwright, Rapid City, Brandon, Hillview, Treherne, Aweme, Almasippi, Aitkensville, Harmattan, Bittern Lake, Bruederheim, Last Mountain, Rosthern, Cannington Manor, Muenster, Prince, Rathmullen, Esterhazy, Berens River, Lost River.

21. Norquay, Morden, Schrieber, Threehills Creek, Waitefield, Loch Sloy, Winnipeg.

22. Cowichan, Chilliwack, Hope, New Westminster, North Nicomen, Princeton, Salmon Arm.

23. Toronto, Nicola, Shawnigan Lake.

24. Westport, Loveland, Sion, Waitefield, Chaplin.

25. Threehills Creek, Hillsdown, Loveland, Sion, Halkirk, Waitefield, Dunstable, Tobacco Plains.

26. Salmon Arm.

27. Georgetown, Westport, Deer Park, Perkins Mills, Agincourt, Beatrice, Haliburton, Madoc, Renfrew, Schreiber, Dunstable, Gravenhurst, London, Toronto, Kingston, Lakefield, Barrie.

28. Georgetown, Westminster, Princeton, Haliburton, North Gower, Providence Bay, Chicoutimi, Lake Edward, Sion, Red Deer, Dunstable, Haileybury, Father Point, Montreal, Campsie, Clarke City.

29. Fredericton, Threehills Creek, Loveland, Sion, Bardo, Dunstable, Lost River.

30. Rapid City, Gretna, Morden, Sion, Waitefield, Dunstable, Caldwell, Crescent Lake, Lost River.

31. Cartwright, Morden, Aweme, Schreiber, Blairmore, Sion, Halkirk, Red Deer, Dunstable, Gravenhurst, Winnipeg, Last Mountain, Rathmullen, Esterhazy.

FORECASTS FOR AUGUST, 1911.

The forecasts issued by this office at 11 p.m. each night are posted up at every telegraph station in Canada, and are for the 24 hours beginning at 8 a.m. the following day.

The number of these predictions issued during the month was 1328. These were divided as follows :—

District.	No. Issued.	Verified.			
		No. Fully	No. Partly	No. Not	Per-centage.
Alberta	83	61	12	7	81·3
Saskatchewan	82	65	10	7	85·4
Manitoba	84	71	4	6	90·5
Lake Superior	115	92	18	5	87·8
Georgian Bay	129	111	13	2	93·4
Ottawa Valley	104	83	17	4	88·0
Upper St. Lawrence	104	83	17	4	88·0
Lower Lake Region	129	111	14	4	91·5
Lower St. Lawrence	120	92	18	10	84·2
Gulf	124	94	26	4	86·3
Maritime Provinces West	127	103	12	12	85·8
Maritime Provinces East	127	103	10	14	85·0
Total	1328	1078	171	79	87·6

In order to obtain the percentage of verification of the predictions, the number partly verified is divided by two and added to the number fully verified, and the result divided by the total number issued.

In ascertaining to what extent the predictions have been verified, the reports from the agents at all observing stations, as well as the telegraphic reports, are used.

R. F. STUPART, Director.

Meteorological Office, Toronto.
September 26, 1911.

DEPARTMENT OF MARINE AND FISHERIES, CANADA.

METEOROLOGICAL SERVICE.

Monthly Weather Review.

VOL. XXXV. SEPTEMBER, 1911. No. 9.

INTRODUCTION.

In compiling the present Review the principal data made use of are the telegraphic reports of observations received at this office for the purpose of weather forecasting, and reports by mail from voluntary observers and storm signal agents. For the data used in tracing the paths of areas of high and low pressure in the United States, we are indebted to the Chief of the Weather Bureau, Washington, D.C.

GENERAL SYNOPSIS.

The mean temperature of the month in British Columbia closely approximated to the average of the preceding twenty-five years, falling for the most part less than 1° below. In the Queen Charlotte Islands there appeared to be an excess of 2° over the average. In the valley of the lower Fraser rain fell on 12 or 13 days, and the amount was generally a little in excess of normal. Elsewhere in the province, except on Vancouver Island, there was a general deficiency of precipitation. Sharp frost occurred in the Kootenays and Okanagan Valley about the 24th and 25th.

The mean temperatures were between 2° and 3° less than normal in the southern portion of Alberta, but at Edmonton were nearly average. During the first week maximum temperatures exceeded 80° in the southern districts, while in the north 75° was not reached; 8° to 12° of frost occurred at the beginning of the last week over the greater part of the southern and central portions of the province, and a temperature of 9° was recorded at Athabasca Landing on the 24th. Precipitation appeared to be in excess of the normal in the south but somewhat deficient in the more northerly districts.

In Saskatchewan the difference from normal September temperature was about 2°. At Prince Albert, however, there was a deficiency of 1°, and at Qu'Appelle the month was 3° cooler than normal. As in Alberta, sharp frosts occurred during the last week, but were not so severe in the northern portion. About two-thirds of the usual rainfall was recorded. Weather conditions were much the same in Manitoba as in the Prairie Provinces, as regards temperature, but the precipitation was well in excess of normal.

Temperatures in the peninsula of Ontario were nearly normal, but in other parts of the province were 2° to 3° below. The month began with temperatures ranging between 85° and 90° but ended with frost, which was severe in Algoma, but in the Ottawa Valley did not exceed 7° and in the southern counties was not of general occurrence. Precipitation was heavy in some of the southern counties, and while a little less than normal in many other parts of the province there was no marked deficiency except on the eastern shore of the Georgian Bay.

In Quebec the majority of observers reported less than the average precipitation and the mean temperatures from 1° to 2° below normal.

In Nova Scotia nearly twice the normal rain-fall was recorded, while in the remainder of the Maritime Provinces, the precipitation although not so heavy was generally well above average. Temperatures were 2° lower than the twenty-five year average, except in southern Nova Scotia, where the deficiency was but 1°.

ATMOSPHERIC PRESSURE.

The mean atmospheric pressure for September exceeded the average throughout the greater part of Canada, the greatest positive departures occurring in Northern Saskatchewan and Northern Alberta. In Central British Columbia, however, the mean pressure for the month was somewhat below normal.

The range of difference from normal throughout Canada was 0·18 of an inch, the extremes being +·11 of an inch at Prince Albert, Sask. and —·07 of an inch at Kamloops, B.C.

LOW AREAS.

The paths of fourteen areas of low pressure were sufficiently well defined to be charted. One first appeared in the Yukon Territory, four in Northern British Columbia, two in the Western Provinces, one in the North Pacific States, one in the South Pacific States, three in the Western States, one to the southward of the Maritime Provinces and one in Northern Quebec.

The general track of the areas was over or to the northward of the Great Lakes, thence to the Straits of Belle Isle and Newfoundland. A few only were energetic, the most pronounced being the area which appears to have formed in the vicinity of Kansas on the 27th, whence it travelled over the southern portion of the Lower Lake Region with increasing intensity, becoming a pronounced storm as it passed along the Nova Scotian coast and over Newfoundland.

HIGH AREAS.

Ten areas of high pressure were charted for the month, which is a larger number than usually occur in September. Three first appeared in the Yukon Territory; three on the northern boundary of the Western Provinces; three on the coast line of the North Pacific States and one to the northward of Lake Superior. The general track of the areas was over the Great Lakes, thence either southeasterly off the New England coast or else over the Maritime Provinces and Newfoundland. They were for the most part well pronounced systems for so early in the autumn season and attended by much cool weather, also in more northern districts by sharp night frosts on several occasions.

TEMPERATURE.

The mean temperature of September, 1911, was lower than the average of the preceding twenty-five years over the whole of the Dominion, except at a few points in British Columbia and Ontario, where the average was barely equalled.

The highest and lowest temperatures recorded in each Province during the month of September, 1911, were:

	HIGHEST.	LOWEST.
British Columbia,	94° at Crawford Bay on the 2nd.	16° at Fort St. James on the 22nd.
Alberta,	87° at Cardston on the 7th.	9° at Athabasca Landing on the 24th.
Saskatchewan,	88 at Glenbryan on the 1st.	14° at Muenster on the 23rd.
Manitoba,	82° at Aweme on the 3rd.	19° at Cypress River on the 30th.
Ontario,	91° at Chatham on the 1st & 2nd.	14° at White River on the 28th.
Quebec	85° at Shawinigan Falls on the 10th.	23° at Lake Edward on the 29th.
New Brunswick,	84° at Grand Manan on the 4th.	23° at St. Stephen on the 29th.
Nova Scotia,	87° at Antigonish on the 9th.	28° at Antigonish on the 15th and at Windsor on the 29th.
P. E. Island,	75° at Charlottetown on the 2nd.	32° at Charlottetown (2) on the 29th.

PRECIPITATION.

In Quebec, northern Alberta and parts of British Columbia and Ontario, there was a deficiency of rain, but elsewhere in the Dominion it was plentiful, while in Nova Scotia it was excessive.

WINDS, SEPTEMBER, 1911.

PROVINCES AND STATIONS.	Total Mileage.	Greatest Mileage in 24 hours.	Greatest Mileage in one hour.	Number of days of Gales	Number of days of Strong Winds.	Number of days of Fresh Winds.	General Direction.
British Columbia.							
Victoria	4595	261	30	1	1	13	SW.
Steveston	6116	418	26	.....	8	12	SW.
Triangle Island	5177	485	58	3	.....	.....	SW.
Alberta.							
Edmonton	3998	266	19	.....	2	5	W.
Saskatchewan.							
Battleford	6363	397	30	1	7	9	NW.
Prince Albert	4004	268	18	.....	1	5	N.
Swift Current	7013	431	32	1	6	11	N., NW.
Manitoba.							
Winnipeg	7625	414	30	1	10	14	W.
Ontario.							
Port Arthur	6718	490	35	2	7	8	N., NW.
Southampton	5499	345	26	.....	3	13	N.
Woodstock	4742	269	23	.....	3	12	NW.
Toronto	7755	523	32	2	8	6	NW.
Quebec.							
Quebec	7522	675	33	2	9	11	NE.
Father Point	8151	482	29	.....	19	5	W.
Anticosti, SW. Pt.	10358	884	42	9	10	5	NW.
Maritime Provinces.							
Fredericton	4877	327	21	.....	1	12	NE.
St. John	7965	466	33	3	9	12	NW.
Pt. Leprcaux	9607	586	51	6	11	11	W.
Halifax	7983	601	36	4	7	12	NE.
Flat Point	t1546	1171	69	9	14	4	SW., NW.
Charlottetown	6074	414	29	.....	4	8	SW.

PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA. SEPTEMBER, 1911

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

STATION.	Latitude N.	Longitude W.	Elevation above sea level, in feet.	PRESSURE. Mean reduced.	Highest.	Lowest.	Range.	TEMPERATURE. Mean.	Difference from average.	Years observ'd in	Highest.	Date.	Lowest.	Date.	Mean daily range.	Mean temperature of dewpoint.	Mean relative humidity.	Mean amount of cloud.	No. of days completely clouded.	DIRECTION OF WIND FROM N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.	Total number of observations.	VELOCITY OF WIND. Mean miles per hour.	Highest day's velocity.	Date and direction from.	PRECIPITATION. Amount.	Difference from average.	Heaviest fall in month.	Days with .01 or more	No. of fair days.	No. of auroras.	No. of thunder storms.	No. of fogs.
	°	°		in.	in.	in.	in.	°	°																																
BRITISH COLUMBIA—																																									
Alberni (Beaver Creek)	49 15	124 49	300					57·0		16	89·0	1	29·0	25-26	23·9																		2·95	0·61	0·81	16	14	0	3	0
Atlin	59 35	133 38	2240	29·99	30·31	29·50	0·81	56·8		21	80·0	1	10·0		21·7																		1·90	+0·20	1·15	10	20	0	0	0
Barkerville	53 2	121 35	4180	29·97	30·25	29·66	0·59	46·0		5	67·5	6	25·0		21·1																		1·96		0·67	7	23	4	0	0
Bella Coola	52 16	126 51	150					43·6	−1·8	21	61·0	2 12	18·0		16·0		88	7	8	0	0	0	2	0	1	0	1	56	60	0·8	20·0	15 SW	3·62	−0·04	0·98	16	20	0	0	0
Babine Lake	55 38	126 26						51·2		13	83·0	3	28·0		22·8																		2·13	−1·69	0·47	14	16	0	2	5
Boswell	49 19	116 41																																								
Chilcoten (Big Creek)	51 10	123 0	3100					47·7		8	77·0	1	18·0		22·6																		3·52		1·02	11	19	0	6	0
Cranbrook	49 30	115 50						53·3		3	83·0	10	19·0		27·9																		3·10		1·20	9	21	1	0	0
Clayoquot	49 11	125 47	10					54·6		12	70·0	1	37·0		21·1																		3·48	−3·75	1·01	9	21	0	1	0
Cowichan (Tzouhalem)	48 25	123 42	170					55·7		5	79·0	1	31·4		19·3																		2·52		0·90	13	17	0	0	0
Chilliwack	49 10	121 57	21					56·5		13	79·0	1	32·0		16·6																		4·96	+0·03	1·06	14	16	0	6	0
Crawford Bay	49 15	116 45	2000					56·4		2	90·0	2	27·0		30·8																		2·62		0·49	13	17	0	3	0
Enderby	50 32	119 7	1180					52·8		8	84·0	2	23·0		26·6																		1·74		0·52	12	18	0	1	0
Fort St. James (Stuart's Lake)	54 28	124 12	2280					46·9		18	70·5	13	16·0		22·7																		0·57	0·38	0·41	9	21	1	0	0
Fairview	49 11	119 36																																								
Fruitvale	49 9	117 31																																							
Glacier	51 11	117 29	4072					44·1		8	67·0	10-11	27·0		25·1																		2·38		0·44	12	1	0	0	0
Golden	51 16	116 57	2580					49·4	0·7	10	79·0	2	20·0		25·7																		0·18	−1·49	0·09	4	30	0	1	0
Grand Forks	49 2	118 27						54·8		12	92·0	2	25·0		25·2																		0·85		0·38	11	18	0	2	0
Greenwood	49 5	118 49																																								
Holberg	50 38	128 18						53·1		3	67·0	6	37·8		23·8																		8·52		2·49	18	12	0	0	0
Hedley	49 35	120 10	1771					53·9		8	87·0	2	29·0	24-25	21·1																		1·41		0·67	9	21	0	0	0
Hedley (Nickel Plate)																																								
Hope	49 23	121 25						56·2		2	81·5	2	35·0	24-26	17·3																		6·23		1·33	15	15	0	4	0
Ikeda Bay	52 17	131 7	5					52·1		4	67·0	26	48·0		6·5																		1·52		1·42	11	19	0	0	3
Kamloops	50 41	120 20	1215	29·93	30·22	29·63	0·59	56·0	2·0	19	88·0	1	27·9		22·7		73	6	5	1	4	5	5	6	5	17	4	13	60	3·9	13·0	—	0·88	−0·11	0·23	9	21	0	0	0
Ladner	49 5	123 1						54·3	0·3	10	72·0	2	30·0	24-25	20·1																		2·00	+0·19	0·50	11	19	0	0	0
Massett, Q.C.I.	53 58	132 9	30					56·7	+2·9	14	75·0	11	45·0	25-28	13·1																		2·61	−0·18	2·09	17	13	0	0	0
aNanaimo	49 10	123 37	125					51·7	1·1	15	81·0	3	25·0		22·2																		1·17	+0·22	0·60	4	26	1	1	0
Nicola Lake	50 9	120 30	2120					56·3		19	79·0	1	36·0	24-26	15·7																		7·21	+2·41	1·47	13	15	0	3	0
North Nicomen	49 12	122 2	59					56·2	−0·1	24	77·3	2	37·1		14·8																		4·21	+0·70	1·75	11	16	0	2	4
New Westminster	49 13	122 54	330					54·2		9	86·0	1	30·0	24-25	19·0																		3·33		0·76	10	20	0	2	0
Nelson	49 29	117 21	1709					54·5		2	79·0	2	30·0	21-26	28·5																		1·30		0·60	7	23	0	2	0
Needles	49 10	118 9						54·0	1·3	12	80·0	1	26·0		20·0																		0·59	0·21	0·30	7	23	0	2	0
Okanagan Mission (Kelowna)	49 52	119 29	1200					51·9		17	82·0	1	21·0		25·1																		1·49	0·19	0·35	8	22	0	2	0
Princeton	49 29	120 29	1650					56·1		5	78·0	2	30·0		20·2																		1·20		0·60	8	22	0	2	0
Penticton	49 29	119 35						54·0		2	80·0	1-2	29·0		19·1																		1·03		0·38	6	24	0	0	0
Pemberton Hatchery	50 20	122 33						55·3		4	80·0	4-5	38·0		23·5		87	8	11	0	2	8	8	2	0	5	0	35	60	1·6	8·0	—	4·23		0·97	17	13	0	0	0
Prince Rupert	54 18	130 18	170	29·91	30·21	29·31	0·90	53·5		16	81·0	12	23·0	22-23	25·9																		2·20	−0·58	0·56	8	22	0	0	0
Quesnelle	52 59	122 30	1700					52·8	−0·1	12	80·0	1-12	27·0		22·0																		2·61	−0·88	0·67	12	18	0	0	0
Revelstoke	51 0	118 6	1476					50·8		8	81·0	2	30·5	25	15·2																		2·70		0·47	10	2	0	2	0
Rossland	49 5	117 48	3100					55·6		2	77·0	5	35·0	24-25	18·1																		1·65		1·10	14	16	0	6	6
Ruskin (Stave Falls)	49 16	122 23	125					53·8		6	84·0	1	26·0		23·4																		1·80		0·51	12	18	0	5	1
Salmon Arm	50 42	119 35	1152					53·6		1	85·0	1-2	26·0		26·6																		0·32		0·05	8	22	0	0	0
Salmon Arm (Ex. Farm)								53·9		16	70·5	6	30·5		25·7																		2·68	+0·11	0·67	11	16	0	2	0
Steveston (Garry Point)	49 21	123 17						54·8		3	79·0	5	37·0		21·1																		8·71		1·67	16	14	0	2	0
Swanson Bay	50 37	126 53						54·6		5	85·0	2	29·0		25·8																		1·08		0·50	4	26	1	2	0
Summerland	49 57	119 0	1100																																							
Sooke	48 41	123 44	25					51·0		1	75·0	5	30·0	21-22	17·6																		3·21		0·55	17	13	0	0	0
Stewart	56 1	130 1	215					54·0	−0·1	11	90·1	1	27·0	24-25	21·6																		1·02	0·22	0·30	6	24	0	1	0
Tobacco Plains (Elko)	49 1	115 5	2684					48·8		1	55·0	1	41·0		5·7			10	25	7	0	1	6	5	30	4	5	0	60	5·7	15·0	2 SW	5·88		1·71	27	3	0	0	28
Triangle Island	50 52	129 5	680	30·05	30·35	29·37	0·98																																			

*a*Tranquille	50	11	120	29		28·73	29·01	28·45	0·59	56·0	—	4	81·0	1	28·0	25	23·2		71	5	4	12	10	6	7	2	5	5	13	0	60					—	0·32	9	21	0	0	0
Vernon (Coldstream Ranch)	50	14	119	15	1246					55·1		18	87·0	2	28·0	21	22·8																		0·91	−0·52	0·59	6	24	0	0	0
Victoria	48	21	123	19	85	30·00	30·33	29·73	0·60	55·5	−1·1	19	72·7	2	37·8	26	13·9		79	7	5	7	1	2	4	11	11	11	4	6	60	7·4	20·0	6SW	2·25	+0·15	0·63	12	18	0	3	3
Vancouver	49	17	123	5	136	30·01	30·31	29·73	0·58	56·0	+0·4	11	71·4	1	37·4	21	13·9		83	6	8	2	5	9	12	2	1	5	5	16	60	2·8	8·0	—	1·41	−0·05	1·08	15	15	0	2	1
Winter Harbour	50	32	128	3						51·2	—	17	72·0	10	38·0	26	11·6																		5·19	1·68	1·51	12	18	0	0	0
Wilmer	50	31	116	14																																						

Yukon :—

Carcross	60	11	134	31	2171					44·8	—	5	67·0	5	22·0	21	19·4																		1·12	—	0·85	5	25	0	0	0
Dawson	61	4	139	20	1200	30·09	30·57	29·38	1·19	43·3	—	9	77·0	6	12·0	19	25·1			6	6	1	0	0	0	2	0	0	2	55					0·86	—	0·26	9	21	1	0	3

Alberta—

Athabasca Landing	54	43	113	17	1650					46·4	—	9	76·0	12-13	9·0	21	26·6					3	2	7	1	5	2	7	2	0	29				1·38	—	0·63	6	21	0	1	0
Alix	52	21	113	10						47·7	—	6	72·0	12-13	22·0	21	21·0					2	2	1	4	1	6	4	5	2	31				1·82	—	0·78	7	24	0	0	9
Banff	51	10	115	31	4542	30·02	30·30	29·49	0·81	41·8	−1·6	15	72·4	12	18·6	21	21·3				4	3	9	3	4	1	19	7	0	11	60				1·14	0·61	0·51	11	19	0	0	0
Blairmore	49	40	114	30	4225					43·7	—	2	78·0	11	20·1	23	25·0																		5·05	—	1·50	10	20	0	0	0
Calgary	51	2	114	2	3389	29·95	30·26	29·50	0·76	47·4	−2·8	27	71·0	10-12	21·0	21	22·2				7	0	7	2	8	3	5	3	25	7	60				0·89	0·35	0·30	5	25	0	0	0
Cardston	49	12	113	18						45·2	—	7	87·0	11	19·0	21	25·7																		4·81	—	1·57	7	24	0	0	0
Didsbury	51	10	114	8	3300					47·7	—	9	74·0	11	20·0	24	22·3				9	0	5	3	1	1	5	2	13	0	30				1·33	—	0·11	7	23	0	0	0
*a*Dunvegan	55	56	118	35	1305																																					
Daysland	55	52	112	17																																						
Delia	51	38	112	25						46·2	—	1	72·5	2	22·5	25	22·4																		1·10	—	0·41	5	25	1	0	1
Edmonton	53	33	113	30	2158	29·97	30·37	29·46	0·91	50·1	0·2	28	77·0	12-13	20·0	22	24·6				3	6	2	7	5	7	1	21	10	1	60				0·98	−0·52	0·40	10	21	0	0	0
Eckville	52	23	114	22																																						
Endiang	52	0	112	0	2795					47·5	—	1	75·0	12-13	20·2	23	22·4																		0·93	—	0·13	3	28	0	0	0
Fort Vermilion	58	27	116	3						—	—	7	71·8	7	—	—	—																		1·78		0·67	6	25	10	1	0
Gleichen	50	59	112	51	2952					46·2	—	9	71·0	10-12	21·0	21	25·6																		0·77	—	0·45	1	26	0	0	0
Gilt Edge	52	59	110	43						47·5	—	2	75·0	12	13·6	22	26·4																		0·85	—	0·75	2	28	0	0	0
Hillsdown	52	14	113	29	2806					47·9	—	7	72·0	12	21·0	25	20·3					1	7	0	13	5	0	0	29	5	60				1·89		0·64	9	21	1	0	2
High River	50	35	113	53	3394					47·1	—	5	71·0	3-12	20·0	24	21·5																		2·14		1·10	8	22	0	0	0
Harmattan	51	15	114	23	3500					44·9	—	4	74·0	12	17·0	21	27·3																		1·67		0·78	10	20	0	0	0
Halkirk (Emsburg)	52	17	112	10						47·1	—	4	73·0	2	21·0	24	19·6					7	10	3	5	13	7	4	11	0	60				1·59	—	0·53	8	22	1	1	1
Lethbridge	49	42	112	51	2961					50·8	—	11	81·8	1	25·0	23	22·5																		3·98	—	1·73	9	21	0	0	0
Lethbridge (Exp. Farm)	49	43	112	51						50·2	—	4	82·9	2	25·4	25	23·7																		1·16	—	1·36	9	21	0	0	0
Lacombe	52	58	113	44	2783					47·7	—	4	76·0	2	21·5	25	25·0																		2·50		0·95	9	21	0	0	0
Lawrence	50	46	113	26						46·2	—	5	75·0	2	16·0	25	35·4																		1·61		0·75	8	22	0	0	0
Lunnford	51	33	114	19						46·5	—	2	75·6	12	17·4	22	27·4																		1·68	—	1·45	4	26	0	0	0
Loveland	52	30	111	59						47·9	—	2	76·0	13	20·0	25	25·1					1	3	2	8	3	3	5	5	0	30				0·85		0·43	4	26	0	0	0
Medicine Hat	50	1	110	37	2161	29·93	30·25	29·59	0·66	53·5	−2·6	27	81·0	12	28·0	23	24·6				8	3	10	2	3	16	8	3	2	13	60				1·75	+0·74	0·38	11	19	0	1	0
Macleod	49	44	113	24	3128					49·3		17	81·0	1	26·5	23	22·0																		3·14	+2·01	1·62	6	21	0	0	0
Moose (Tyrol)	51	15	110	39																																						
Peace River Crossing	56	15	117	15						47·8	—	4	79·0	12	26·0	21	24·5																		3·02		0·93	6	24	0	0	3
Pembina	51	12	111	0						47·3	—	4	75·0	15	16·0	22	27·1					6	2	3	1	1	5	2	4	6	30				1·65	—	1·51	4	26	0	0	0
Pakan (Victoria)	54	0	112	31						47·2	—	7	77·6	13	17·5	22	26·3					6	9	1	1	5	12	12	7	7	60				1·35		1·00	7	23	0	1	1
Pincher Creek	49	0	114	4	3750																																					
Red Deer	52	16	113	49						47·4	−2·0	11	71·0	2	22·0	23	22·6					6	2	1	5	4	1	3	4	0	29				1·61	—	0·46	11	19	5	0	1
Spirit River	55	40	118	47						41·1	—	2	75·0	12	16·0	22	26·1																		2·92	—	1·25	5	25	0	0	1
Sundial	50	6	112	34						48·9	—	1	77·0	1	22·0	21	21·9																		2·11	—	1·21	6	21	0	0	0
Threehills Creek	51	30	113	14																																						
Wetaskiwin	52	58	113	23	2180					50·1	—	10	77·0	13	18·5	21	26·8																		1·50	—	1·00	2	28	0	0	0
Waitefield	53	29	111	38	2000					47·9	—	6	75·8	14	16·0	22	21·9					8	3	8	6	6	7	11	23	18	90				1·60	—	0·85	15	15	5	2	3

Saskatchewan—

Battleford	52	41	108	20	1620	29·96	30·32	29·50	0·82	49·7	−1·9	21	76·0	10-13	23·0	25	22·9		86			7	5	1	15	2	12	5	20	23	90				1·29	+0·03	0·3	7	23	0	0	0
Broadview	50	23	102	33	1960					48·3	—	7	82·0	2	21·0	24	27·7																		2·10	—	1·00	3	27	0	0	0
Brownlee	50	45	106	0																																						
Chaplin	50	26	106	39	2202					48·4		22	77·0	12	22·0	24	25·7					2	8	3	3	0	2	0	12	0	30				1·05	+0·20	0·51	9	21	1	5	0
Cannington Manor	49	43	102	2	2061																																					
Crescent Lake	50	59	102	25	1658					46·6	—	7	75·1	14	22·2	25	26·9					2	5	1	2	7	6	2	5	0	33				1·97	—	0·15	12	18	3	1	2
Cumberland House	53	56	102	16						51·8	—	1	80·0	2-7	20·0	29	32·1																		3·60	—	1·10	5	25	0	0	0
Duck Lake	52	51	106	20																																						
Estevan	49	12	103	4	1858					50·9	−2·2	11	78·0	12	27·0	21	21·1					0	0	4	2	4	3	6	3	8	30				1·29	—	0·53	4	26	1	0	0
Grenfell (Brownhill)	50	23	102	53	1957					46·7	—	10	80·0	13	20·0	25	25·1					1	10	5	15	2	19	1	7	0	60				3·31	—	1·22	5	25	0	0	0
Glenbryan (Larchmount.)	49	51	107	27						49·3	—	1	88·0	1	23·2	25	21·6					4	15	0	5	0	3	10	23	0	60				3·79	—	1·19	9	21	2	3	0
Humboldt	52	12	105	9						48·4	—	6	71·0	3	21·0	7-8	21·0																		0·91		0·51	2	28	0	0	1

PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA, SEPTEMBER, 1911

a Barometer not reduced to Sea Level. ' Stations not furnished with Registering Thermometers.

STATION.	Latitude N.	Longitude W.	Elevation above sea level, in feet.	Pressure. Mean reduced.	Pressure. Highest.	Pressure. Lowest.	Pressure. Range.	Temperature. Mean.	Temperature. Difference from average.	Temperature. Highest. Years observed.	Temperature. Highest. Date.	Temperature. Lowest.	Temperature. Lowest. Date.	Temperature. Mean daily range.	Mean temperature of dewpoint.	Mean relative humidity.	Mean amount of cloud.	No. of days completely clouded.	Direction of wind from. N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.	Tot. Number of obs. (vanes).	Velocity of wind. Mean miles per hour.	Highest day's velocity.	Date and direction from.	Precipitation. Amount.	Difference from average.	Heaviest fall in month.	Days with 0·01 or more.	No. of days.	No. of days.	No. of days.
SASKATCHEWAN—*Con.*				in.	in.	in.	in.																														
Indian Head	50	28	103	10	1921							18·2			21	79	0	13	20·0	21	23·4				5	11	1	6	10	11	11	16	13	90				1·14	0·85	0·35	6	21	0	0	0
Kelvinhurst	49	21	100	29								18·9			1	79	0	2	42	24·0	25	22·6																6·35		2·55	10	29	0	1	0
Lloydminster	53	18	110	0								15·2			6	73	4	13		17·0	25	26·7																1·73		1·40	8	22	0	0	0
Luseland	52	5	109	24								16·7			1	71	5	12		18·0	25	26·8																0·75		0·25	5	26	0	0	0
Lost River												16·4			1	71	0	3		24·0	23	23·7																1·63		0·50	13	17	0	3	0
Moose Jaw	50	21	105	35	1759	29·96	30·05	29·56	0·79			19·9			16	82	0	12		27·0	29	25·1		79		13	21	9	5	0	12	10	12	8	90				0·93	0·06	0·51	7	23	0	1	0
Moosomin	50	0	101	37	1881							18·1			9	76	0	13		23·0	25	22·3				6	9	6	2	5	5	8	1	0	30				1·38		2·05	6	24	0	0	0
Muenster (St. Peter's Monastery)	52	0	105	0	1870							15·3			5	73	0	13		11·0	23	20·7				9	7	0	0	8	4	30	1	1	60				1·10		0·80	2	28	2	1	0
Melfort	52	17	104	30								16·2			2	71	0	13		22·0	17	22·2																1·61		0·49	10	29	1	0	0
Maple Creek (Divide)	49	55	109	28								15·8			2	77	2	12		21·2	24	21·3																5·19		1·68	11	19	3	2	6
Onion Lake	53	52	109	59								16·8			1	72	0	3	13	18·0	25	26·3				4	8	2	2	1	2	4	7	6	30											
Oliver	51	16	98	10								19·5			2	71	0	9		20·0	7	28·3																0·73		0·46	3	25	1	0	0
Pense (Gatesgarth)	50	20	105	0	1870							17·9			10	75	0	11		20·0	25	23·5				2	0	1	6	1	0	7	7	6	30				1·03	0·60	0·30	7	23	0	2	0
Prince Albert	53	10	105	0	1432	30·01						18·6		1·1	27	73	2	2		21·0	25	23·3		86		8	1	3	1	10	7	1	11	12	60				1·77	0·33	0·97	8	27	2	0	0
Prince (Meota)	51	0	108	20	1700							16·0			5	76	0	1		17·0	25	26·5																1·41		0·75	7	23	0	1	1
Qu'Appelle	50	30	103	47	2115	29·91	30·32	29·23	1·09			18·9		3·2	27	79	5	13		26·0	25	24·5		70		3	9	2	4	7	16	2	15	1	60				1·25	0·17	0·30	5	21	2	3	0
Quill Lake	52	4	104	14								16·6			1	73	0	11		20·0	7	23·3																1·70		0·95	5	25	0	0	0
Regina	50	27	104	37	1885							19·1			2	78	0	13		24·0	25	24·8																0·57	0·11	0·21	7	23	0	0	0
Rathmullen	51	20	108	57								17·5			2	77	0	1		20·0	24	25·7																1·22		0·34	8	22	0	1	
Rosthern	52	10	106	20	1657							16·7			1	71	1	11		23·0	26	22·2																1·81		0·84	7	23	0	0	1
Swift Current	50	20	107	15	2139	30·01	30·33	29·69	0·64			20·7		1·5	26	81	0	12		27·0	25	20·7		79		9	13	1	1	10	14	16	15	5	90				0·96	0·37	0·20	11	19	0	0	0
Saskatoon	52	15	106	39	1571							18·9		0·5	13	71	0	11		23·1	7	23·0																0·56		0·36	3	27	0	0	0
Strassburg	51	5	104	56								18·4			2	75	0	12		20·0	23	22·0																1·11		0·79	5	28	0	0	0
Scott (Ex. Farm)	51	59	108	39								17·1			1	73	9	10		22·2	25	24·3																1·22		0·48	10	29	1	1	0
The Pas	53	19	101	15	850	29·98	30·39	29·31	1·08			16·0			1	67	2	2		15·0	22	19·2		87		8	1	10	1	5	5	23	2	2	60				1·92		1·50	8	22	0	0	0
Wascana	50	6	109	29								15·9			1	73	0	12	13	17·0	22	24·6				6	3	2	2	0	1	11	11	0	30				1·12		0·71	4	26	1	0	0
Yorkton	51	11	102	29								19·1			3	75	0	13		26·0	7	25·1																1·03		0·46	7	23	0	0	0
Yarbo (Fairfield)	50	39	102	1								16·8			1	80	0	11	11	22·0	25	27·8				6	3	2	2	2	3	6	6	0	30				3·10		1·46	13	17	3	2	1
Yellow Grass	49	49	104	9								19·6			1	79	0	14		26·0	24	25·0																0·93		0·24	9	21	1	1	1
MANITOBA																																												
Almasippi	49	11	99	20								52·3			9	80	0	13		21·0	24	25·2																1·78		0·50	10	20	0	1	0
a Awemo (St. Alban's)	49	12	99	34	1180	28·77	29·06	28·33	0·73			52·1			26	81	5	3		26·0	25	24·6																2·55	+0·97	0·73	16	14	4	1	0
Brandon	49	51	99	57	1176							51·1			23	76	5	13		21·0	25	23·2			6	3	1	20	1	1	1	13	12	7	28	90	1	111	11 W.	1·43	+0·21	0·53	11	19	0	0	0
Berens River	52	18	97	23	710							48·3			1	71	0	1		25·0	27	21·6				5	4	9	7	10	2	9	11	0	60				2·49		1·10	4	26	0	2	0
Birtle	50	25	101	1	1703																																							
Carberry	49	52	99	20	1258							—			6																								1·91		0·56	8	22	0	1	1
Carman	49	31	98	0	872							50·9			8	77	0	1	11	27·0	25	25·1																1·69		0·46	7	23	0	0	0
Cypress River	49	33	99	3	1232							49·1			6	78	0	11		19·0	50	26·1																1·62		0·39	9	24	0	0	0
Dauphin	51	8	100	2	957							50·4			1	76	0	1	4	25·0	25	22·8																2·45		0·85	6	24	0	0	0
Hillview	49	55	100	33	1100							50·3			29	76	0	13		25·0	25	21·8			4	5	8	22	6	3	6	30	6	7	2	90				1·62	0·01	0·65	12	18	3	2	0
Minnedosa	50	15	99	50	1620	30·00	30·35	29·40	0·95			18·8	—	3·3	28	75	6	10		20·0	25	23·0			5	5	2	6	2	1	0	1	3	3	42	60				2·77	+1·25	1·26	10	20	1	1	1
Morden	49	11	98	6	978							52·3			6	78	0	1		23·0	24	21·6				8	13	1	1	5	11	11	1	3	60				1·45		0·48	11	19	0	2	0
Moose Horn Bay (Atkinsville)	51	15	99	33								51·9			2	71	0	1	11	23·0	7	21·5				8	7	5	1	1	3	5	5	2	13				2·20		0·68	9	24	1	0	0
Ninga	49	14	99	51	1649								—		1	71	6	11																				2·33	—	1·25	6	21	0	0	0
Oakbank	49	57	96	12	800							50·0			16	72	0	10		26·5	24	18·8				7	3	1	0	1	4	5	3	0	30				2·71	-0·40	0·91	9	24	1	0	1
Pipestone	49	31	100	58	1100							51·3			9	81	0	1		21·0	25	27·9																0·35		0·15	3	27	0	0	0
Portage la Prairie	49	57	98	17	830							50·6			21	75	0	10	17	29·0	23	22·0																1·77	+0·29	0·65	7	23	0	0	0
Portage la Prairie (2)	49	56	98	17								51·7			6	77	0	1		30·5	25	21·1																2·56		0·95	10	20	0	0	0

Manitoba—*Concluded.*																																										
Pierson	49	11	101	5	1531					50·6	—	6	76·0	13	25·0	25	25·7																		1·12	—	0·42	5	25	0	0	0
Stony Mountain	50	40	97	14	803					51·6		29	78·0	16	25·0	24-28	26·3					6	13	1	6	14	4	12	4	0	60	II	IV	—	2·25	+0·07	0·50	5	25	0	0	0
Swan River	52	6	101	15	1112					49·4	—	4	75·0	10-13	25·0	5	25·1																		2·37	—	1·02	8	22	0	0	0
Treherne	49	36	98	40	1212					51·9		16	78·0	13	26·0	21	20·9																		2·11	—	0·60	13	17	5	1	3
Virden	49	51	100	35	1444					54·5	—	6	79·0	11	26·0	25	36·8																		—		—		—	0	0	0
Winnipeg	49	53	97	7	760	30·01	30·35	29·43	0·92	52·4	−1·5	38	76·1	10	29·1	28	21·5			6	2	10	6	1	13	8	7	3	10	2	60				2·43	+0·51	0·57	11	19	0	0	0
Ontario—																																										
Alton	43	51	80	5	1256					54·9		25	81.2	2	21·9	14	29·1			3	1	13	1	27	5	15	6	21	2	0	90	II	II	—	3·51	+0·72	0·69	10	20	0	3	3
Aurora	43	57	79	24	886					57·5	—	4	84·9	1	27·4	28	22·6																		3·12	+0·57	0·89	9	21	0	1	0
Agincourt	43	47	79	16	590																																					
Barrie	44	23	79	41	839					56·9		36	80·9	1	29·8	28	18·7			4	1	9	9	6	5	11	8	5	20	17	90	II	III	—	2·50	−0·17	0·45	13	17	2	2	0
Beatrice	45	8	79	20	800					55·0		36	80·0	18	22·0	28	24·5			5	5	7	0	0	12	12	8	3	9	39	90	I	III	–	2·09	−1·69	0·73	7	23	0	1	3
Bruce Mines	46	18	83	55	595					54·0		12	78·0	16	24·0	28	23·0																		1·84	−1·72	0·81	9	21	1	2	1
Birnam	43	2	81	55	600					60·3		26	85·1	2	35·0	14	17·4					13	8	13	5	10	1	0	4	6	60				3·68	+0·69	1·26	8	22	2	4	4
Brantford	43	10	80	21	750					60·5		29	87·0	1	32·0	13	21·7																		1·96	−0·35	0·41	7	23	0	2	3
Bloomfield	43	59	77	21	260					59·1	−1·4	11	78·0	2	32·0	28	19·6																		2·00	—	0·37	9	21	0	1	0
Bancroft	45	1	77	50						53·9	—	20	81·0	1	26·0	13	28·2																		1·34	−2·73	0·86	2	28	0	0	0
Copper Cliff	46	30	80	59						55·3	—	5	81·0	1	26·0	28	21·5																		1·10	—	0·47	5	26	0	0	0
Clinton	43	32	81	37						57·5	—	9	80·0	2	31·0	14	20·0					4	3	18	5	2	2	10	16	0	60				4·28	—	1·20	12	18	1	1	1
Coldwater	44	38	79	40	600					—	—	16	—	—	—	—	—																		1·73	−1·03	0·51	5	25	0	0	0
Cottam	42	7	82	45	606					63·1		26	80·0	2	31·0	13	26·7					12	0	10	11	21	3	3	0	0	60				5·99	+3·00	1·65	9	21	0	0	3
Chatham	42	23	82	12	595					61·3		25	91·0	1-2	33·0	14	25·5																		5·10	+3·55	2·65	8	22	0	6	0
Collingwood	44	31	80	2						57·7	—	17	85·0	19	27·0	14	23·8																		1·03	−2·06	0·31	9	21	0	0	0
Elora	43	41	80	24	1274					57·1	+0·7	14	80·0	18	27·0	14	26·2																		3·47	+1·17	0·76	10	20	0	0	0
Gravenhurst	44	54	79	20						55·3		40	81·0	3	24·0	28	25·7			5	4	12	4	19	12	13	5	3	8	11	90	II	IV	18 SE	1·63	−0·74	0·58	9	21	2	1	
Guelph	43	33	80	16	1050					59·2		26	83·0	4	30·0	12	20·6																		0·31	−1·86	0·30	2	28	0	0	[illegible]
Grimsby	43	13	79	36						62·1	—	1	89·0	2	35·0	14	19·5																		2·91	—	0·97	10	20	0	0	0
Haileybury	47	29	79	39	687	30·16	30·46	29·53	0·93	63·8		16	78·8	18	27·5	28	19·3					5	1	3	4	8	5	13	13	8	60	II	IV	2 NW	2·37	−0·83	0·53	11	19	5	0	0
Hamilton	43	16	79	54	303					61·6		37	85·0	1	36·0	14	15·6																		2·88	−0·30	0·93	5	25	0	0	0
Haliburton	45	1	79	8	1050					55·7		24	81·0	1	23·0	14-28	28·0																		1·55	−1·38	0·80	4	26	0	0	0
Huntsville	45	19	79	8						56·6	—	5	80·0	4	24·0	28	21·8																		—	—		—	—	0	0	0
Kenora	49	48	94	32	1102					47·2		11	69·0	21	31·0	28	13·4																		1·27		1·06	7	23	1	1	0
Kakabeka Falls	48	29	89	26	912					48·4	—	3	75·0	1-22	20·0	28	25·5																		3·09	—	0·87	14	16	1	2	4
Kingston	44	13	76	29	285	30·07	30·39	29·69	0·70	58·7	−1·9	37	75·4	18	29·7	28	16·2			5		1	14	0	5	3	17	1	19	0	60				2·84	+0·21	0·87	12	18	0	0	0
Kinmount	44	45	78	38	920					52·9	−3·6	12	78·5	1	23·0	27	25·6																		2·43	−0·62	0·92	9	21	0	0	0
Lucknow	43	56	81	30	908					56·1		25	83·0	1	30·5	28	22·9																		3·88	+0·75	1·06	10	20	2	4	4
Lake Talon	46	15	78	48						52·3		16	79·0	1-18	25·0	14	25·3																		2·59	−1·08	1·05	7	23	4	1	6
London	42	59	81	13	808	30·05	30·39	29·62	0·77	[illegible]		25	87·5	2	32·0	14	21·6			4	6	0	33	6	10	0	5	1	35	0	90				2·85	−0·21	0·96	11	19	0	2	0
Lakeside Home	43	40	79	24						60·0	—	7	83·0	1	38·0	28	14·9																		—	—	—	—	—	0	0	0
Lorne Park	43	32	79	37						62·3	—	3	89·0	10	31·0	14	25·2																		2·53	—	0·85	6	24	0	0	0
Lindsay	44	20	78	45	872					58·3		29	82·7	16	29·0	14	22·2			5	2	18	5	4	3	11	15	7	11	16	90	II	III	7 NE	2·90	+0·02	0.62	12	18	0	2	6
Lakefield	44	25	78	15	850					58·2		28	80·0	4	31·0	28-30	22·1																		2·17	−0·29	0·40	11	19	0	0	0
Midland	44	44	79	53	750					67·6	—	1	85·0	10	55·0	5-7	—																		1·88	−1·12	0·90	8	22	0	0	0
Madoc	44	30	77	29	575					57·7	–	7	83·0	1	28·0	30	22·5																		1·79	—	0·32	10	20	0	2	0
Montague	44	56	75	57						56·3	—	2	83·0	1	25·0	14	23·5																		2·10	0·85	0·67	8	22	0	2	0
Montreal River	47	8	79	29						50·8	—	1	81·0	18	22·0	28	25·9																		2·51	—	0·59	9	21	0	0	0
Matheson	48	29	80	26						48·9	—	1	78·0	18	21·5	13	25·3					5	2	1	2	4	3	23	16	4	60				3·12	—	0·73	11	19	3	0	0
North Bruce	44	23	81	25						[illegible]		24	83·0	23	31·0	14	—																		2·92	+0·19	0·78	10	20	0	0	0
North Gower	45	8	75	43						55·9	—	9	82·0	5	21·0	14	23·4																		–				—	0	1	3
Owen Sound	44	34	80	55	597					—		33	—	—	—	—	—					20	0	1	0	33	2	4	0	0	60					—			—	0	2	0
Orillia	44	37	79	21	775					58·3		20	86·0	1	28·0	27	21·5					1	4	0	3	11	5	0	5	1	30				2·69	−0·28	0·73	9	21	0	0	0
Ottawa	45	26	75	42	294	30·04	30·38	29·62	0·76	55·8	−3·1	26	85·0	4	31·0	14-28	19·7					6	5	11	2	4	7	16	5	4	60				3·19	+0·57	[illegible]	12	18	0	2	1
Port Arthur	48	27	89	12	614	30·03	30·37	29·51	0·86	59·4	−2·4	29	75·0	15	24·0	28	18·7			6	4	11	3	8	3	6	5	12	12	0	60				2·91	−0·30	0·90	12	18	0	2	1
Port Stanley	42	40	81	13	592	30·06	30·31	29·63	0·71	60·2	−0·6	35	76·7	2	35·7	14	18·9			5	6	0	2	16	3	0	5	15	13	6	60				3·13	+0·32	1·10	12	18	1	3	6
Port Dover	42	47	80	12	635					60·7		39	82·5	2	36·0	28	18·7					4	5	7	2	7	1	2	2	0	30				3·61	−1·18	0·96	10	20	0	0	0
Port Burwell	42	39	80	55	592					60·4	—	8	76·0	2	38·0	14	16·6																		3·22	—	0·99	9	21	1	4	0
Parry Sound	45	19	80	0	635	30·07	30·36	29·72	0·64	56·7	−1·5	35	80·0	18	28·0	28	20·9					3	5	7	8	3	10	4	12	8	60				1·52	−2·04	0·35	12	18	0	1	1
Point Clark	44	5	81	44	595					—	—	41	—	—	—	—	—					21	5	11	4	11	2	6	0	0	60				3·41	+0·36	1·10	5	25	0	3	0
Pelee Island	41	50	82	35	585					71·1		14	86·0	3-25	42·0	30	13·9																		3·07	+1·09	1·56	4	26	0	3	0
Paris	43	12	80	25	840					61·1		22	88·0	1	32·0	14	22·6																		3·43	+0·72	0·61	12	18	0	4	0
Peterboro	44	17	78	19	722					59·0		38	81·0	16	28·0	14	24·5																		2·26	−0·92	0·11	9	21	0	1	0
Porcupine	48	29	81	18																																						
Providence Bay	45	40	82	14						54·7	—	4	75·0	16	25·0	28	22·1																		0·48	—	0·24	4	26	0	0	0
Ronville	45	15	78	57	1038					53·2	—	4	80·0	1	26·0	27	24·6																		2·19	—	0·96	11	19	0	0	0
Renfrew	45	26	76	39	416					55·8		21	83·5	1	25·6	28	24·6																		2·46	—	0·57	13	17	1	3	3
Stonecliffe (Rockliffe)	46	9	78	6	557	30·03	30·39	29·54	0·85	53·2	−2·9	27	80·0	1	25·0	28	24·0					4	1	2	0	0	0	15	1	37	60				2·60	−0·76	0·67	10	20	0	0	5
Southampton	44	30	81	21	656	30·08	30·40	29·65	0·75	57·3	−2·5	35	86·7	1	30·6	28	17·8			6	6	21	6	6	0	15	1	1	0	1	60				2·44	+0·09	0·46	13	17	0	2	0
*Sarnia	42	59	82	24	586																																					

PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA, SEPTEMBER, 1911.

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

STATION.	Latitude N.	Longitude W.	Elevation above sea level, in feet.	PRESSURE. Mean reduced.	Highest.	Lowest.	Range.	TEMPERATURE. Mean.	Difference from average.	Years observed.	Highest.	Date.	Lowest.	Date.	Mean daily range.	Mean temperature of dewpoint.	Mean relative humidity.	Mean amount of cloud.	No. of days completely clouded.	DIRECTION OF WIND FROM N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.	Total number of observations.	VELOCITY OF WIND. Mean miles per hour.	Highest day's velocity.	Date and direction from.	PRECIPITATION. Amount.	Difference from average.	Heaviest fall in month.	Days with 0·1 or more.	No. of fog days.	No. of auroras.	No. of thunder-storms.	No. of hail-storms.
ONTARIO *Concluded.*	° ′	° ′																																						
Stratford	43 23	81 0	1191					57·4		16	82·0	2	33·0	14	20·2																		2·98	0·16	1·39	1·27	0	0	0
Stony Creek	43 13	79 45	282					61·2		26	88·0	4	33·0	11	18·8				4	6	1	11	19	2	0	29	16	9	0	90	11	VI	7 E.	2·61	0·50	0·90	6·21	0	0	0
Schreiber	48 50	87 15																																						
Shelburne	44 5	80 17						51·9	—	3	80·0	2	27·5	28	20·9																		1·03		1·00	7·23	0	0	0
Toronto	43 40	79 24	350	30·06	30·31	29·62	0·72	60·5	0·3	70	87·3	1	34·2	14	18·7						12	2	15	2	6	3	8	6	6	60				2·57	0·28	0·53	12·18	0	4	2
Uxbridge	44 5	79 8	886					56·5	—	6	82·0	1	28·0	27	20·5																		2·33	—	0·50	0·91	0	0	0
Uplands	45 18	79 25						52·7		26	83·0	1	17·0	28	28·7							0	7	0	7	0	20	0	15	60				2·05	1·34	0·70	5·26	0	1	0
White River	48 35	85 16	1252	30·02	30·10	29·53	0·57	47·5	— 2·5	21	72·0	17	11·0	28	22·5						11	3	3	0	7	3	12	6	22	60				2·31	0·52	0·80	8·22	0	0	1
Woodstock	43 8	80 47	980	30·02	30·32	29·58	0·74	59·0		37	82·0	10	31·0	14	21·6			57	5	5	4	11	10	9	9	8	11	15	0	87	7·5	15·3	2 W.	2·96	1·37	1·13	8·22	0	0	0
Welland	42 59	79 17	577					61·6		25	81·0	2	36·0	14	19·8						11												2·76	— 0·71	0·63	10·20	0	1	0
Windsor	42 20	83 4	625					61·2		38	89·0	3	44·0	20	16·1																		1·32	+ 1·92	1·18	11·17	0	0	0
Wallaceburg	42 35	82 24						61·4		6	88·0	1	3·0	14	22·1																		1·30		1·73	10·20	0	0	0
QUEBEC—																																								
Abitibi	48 43	79 22						51·3		16	70·0	1	29·0	26	—				7	6	10	4	4	2	23	4	31	9	6	90	III	VI	12 W.	2·63	+ 0·22	0·80	10·23	0	0	0
*Anticosti, E. Point	49 6	61 42	30					48·6		28	59·0	3	37·0	15	29						5	7	11	2	6	16	6	30	7	90				3·18		1·06	7·23	1	0	0
*Anticosti, W. Point	49 52	61 32	30					48·1		30	66·0	18	37·0	27							5	9	8	2	19	6	11	30	0	90				2·81	+ 0·06	0·88	9·21	0	0	1
Brome	45 10	72 36	678					53·3		31	77·0	3	27·0	11	19·5						26	0	12	0	13	2	26	4	7	90				3·04	0·53	0·77	10·20	0	2	0
*Bicquet	48 25	68 53						44·9		30	54·0	6	37·0	27	30						2	11	0	0	7	0	47	21	4	90				0·99	2·05	0·16	1·29	0	0	0
Clarke City	49 9	66 25						48·0	—	5	73·0	23	23·0	14	20·6						0	1	3	0	2	2	7	6	1	31				4·79		1·27	10·21	0	0	2
*Cape Chatte	49 6	66 45						49·0		30	63·0	23	31·0	28	—						0	2	7	0	3	9	54	1	17	90				0·17	2·16	0·15	2·28	0	0	3
*Cape Magdalen	49 16	65 29	93					49·1		29	66·0	6	31·0	15	27						3	9	4	4	18	9	5	14	15	90				1·92	1·00	0·60	10·20	1	0	2
Chicoutimi	48 25	71 5	150	—	—			33											7	5	0	22	0	21	0	34	0	12	1	90	III	VIII	25 SE.	2·21	0·39	0·81	13·17	3	1	2
Chicoutimi (2)								50·7		1	78·0	23	27·0	30	18·9																						0	1	0
Cap Rouge	46 46	71 18						52·1		1	72·0	6	25·0	30	20·2																		1·67	—	0·87	13·17	0	0	0
Disraeli	45 55	71 21						50·5	—	1	78·5	3	25·5	29	24·0																		5·02		0·87	11·19	0	2	1
Father Point	48 31	68 19	20	29·90	30·38	29·30	1·08	48·1	— 1·5	31	68·0	16	25·0	27	15·1						1	3	1	0	9	16	20	5	2	60				2·31	0·73	0·89	15·15	2	0	2
Lake Edward	47 39	72 15	1333					48·7		2	72·1	20	22·9	29	20·6																		2·20		0·55	8·22	0	1	1
La Tuque	47 27	72 48	530					50·1		1	78·0	25	21·0	29	26·6																		1·55		0·49	8·22	0	0	0
Montreal	45 30	73 35	187	29·91	30·10	29·54	0·56	56·6	2·2	37	74·3	24	34·3	28	11·3						11	3	2	1	7	17	13	6	0	60				1·27	0·88	1·52	15·1	0	3	1
Perkin's Mills	45 38	75 38																																						
Quebec	46 48	71 13	286	30·03	30·11	29·42	1·02	52·6	2·8	37	71·5	24	30·2	29	16·2				6	10	3	13	4	1	2	9	19	8	1	60				4·53	+ 0·76	1·28	16·14	3	2	2
*Roberval	48 31	72 13	352																																					
St. Anne de Bellevue	45 27	73 59						56·6		5	76·8	24	32·0	14	17·7																		3·06		1·88	9·21	0	0	0
Shawinigan Falls	46 34	72 43						50·2		9	85·0	10	21·0	29	26·3																		2·16		1·06	11·19	0	2	0
Sherbrooke	45 32	72 5	620					53·4	—	8	76·9	3	27·1	14	20·2																		1·23		0·74	13·17	0	1	0
NEW BRUNSWICK																																								
Chatham	47 3	65 29	21	30·01	30·12	29·42	1·00	54·4	2·6	37	76·0	21	36·0	29	18·7				6	4	1	9	5	0	0	16	14	15	0	60				3·00	0·04	0·62	11·16	0	1	0
Dalhousie	48 4	66 22	39					52·7		37	76·0	21	31·0	29	18·7						0	0	7	0	0	0	17	1	5	30				3·23	+ 0·35	1·15	8·22	0	0	0
Fredericton	45 57	66 39	161	30·06	30·45	29·15	1·00	52·9		38	74·2	11	26·5	29	20·3		80		6	4	2	13	1	7	8	10	20	24	2	90	7·1	15·0	13 NW.	2·09	0·68	0·62	12·18	0	2	1
Grand Manan	44 47	66 46	19	30·03	30·41	29·56	0·85	57·3	+ 0·7	27	83·6	4	4·6	29	13·8				5	3	2	7	1	2	5	12	7	17	2	60				5·53	+ 2·01	1·79	13·17	0	2	3
Moncton	46 9	64 45	50					52·2		11	75·0	2	27·0	13	18·5						0	4	4	1	1	1	5	13	1	30				3·55	+ 0·66	0·75	11·16	0	0	2
*Point Lepreaux	45 4	66 28	30					52·1		33	63·0	4	37·0	14	—				5	6	15	16	5	2	2	19	13	6	0	78	III	IV	—	2·09	+ 1·05	0·80	7·22	0	1	2
St. John	45 17	66 4	70	30·05	30·44	29·16	0·98	51·3	2·3	38	70·5	3	35·5	29	11·2				6	1	11	5	2	1	12	3	3	11	6	60				5·32	+ 1·68	1·19	16·14	0	2	4
St. Stephen	45 11	67 16	35					53·8	2·1	11	79·0	21	23·0	29	23·4																		3·37	+ 0·21	0·62	9·21	0	0	0
Sussex	45 38	65 38	60					53·4	1·9	11	74·5	2	24·0	29	19·2						1	5	1	0	0	1	1	4	11	30				3·61	0·78	1·25	10·20	0	0	0

Nova Scotia—																																										
Antigonish	45	38	61	59	50	...	...	...	...	55·0	—	1	87·0	9	28·0	15	21·8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	—	—	—	—	—	0	0	0
Halifax	44	39	63	36	88	30·02	30·10	29·49	0·91	56·8	− 2·0	37	76·3	2	31·2	29	16·0	...	...	7	...	8	11	4	3	3	8	13	7	3	60	...	...	...	6·87	+2·86	2·45	18	12	0	0	2
Port Hastings	45	39	61	22	45	...	...	...	...	—	—	20	75·0	1-24	—	—	—	...	...	...	...	0	2	0	8	0	12	0	8	0	30	...	...	...	1·11	+0·76	1·78	7	23	0	0	0
Parrsboro'	45	23	64	19	40	...	...	...	...	50·7	...	15	64·5	2	30·0	23	21·0	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	—	—	—	—	—	0	0	0
Sydney	46	10	60	10	35	30·03	30·14	29·26	1·18	55·9	− 1·1	38	74·0	20	35·4	16	15·7	...	...	...	...	6	8	3	1	1	12	13	8	8	60	...	...	...	7·44	+4·25	2·16	19	11	0	1	0
*Sable Island, E. Point	43	58	59	46	25	...	...	...	...	60·1	...	27	70·0	4-23	46·0	15	—	...	...	...	...	3	14	0	15	0	28	0	30	0	90	...	...	...	4·65	+1·85	1·5	7	23	0	0	6
Truro	45	22	63	18	77	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Windsor	44	59	64	6	90	...	...	...	...	56·2	...	9	77·5	3	28·0	29	17·7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3·98	—	1·35	13	17	0	2	0
*Whitehead	45	15	61	8	20	...	...	...	...	56·2	...	28	69·0	20	[illegible]	29	—	...	...	...	...	6	9	5	8	12	25	1	23	1	90	...	...	...	6·89	+4·18	2·17	8	22	0	0	4
a Wolfville	45	7	64	20	...	29·92	30·35	29·17	0·88	56·3	...	12	79·0	2	32·0	15	18·0	...	...	...	...	3	3	2	4	6	9	13	8	15	60	...	...	...	6·21	+3·28	1.65	13	17	0	0	1
Yarmouth	43	50	66	2	65	30·05	30·12	29·53	0·89	51·9	− 1·3	31	75·1	19	33·0	15	13·6	...	...	...	...	7	12	2	5	8	2	5	7	2	60	...	...	...	5·39	+1·50	1·83	17	13	0	1	8
P. E. Island—																																										
Charlottetown	46	14	63	10	38	30·02	30·39	29·58	0 81	55·8	− 1·9	36	75·0	2	31·5	15	12·9	...	...	...	...	4	11	2	3	3	19	8	8	2	60	...	...	...	6·23	2·39	1·22	18	12	0	2	1
Charlottetown (2)	46	14	63	7	75	...	...	...	...	55·3	—	2	73·0	2-11	32·0	29	14·7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	6·26		1·14	21	9	0	0	0
Hamilton	46	25	63	48	...	...	...	...	...	55·0	.	11	70·0	1-12	36·0	13	13·3	...	...	...	...	1	0	2	1	0	14	11	1	0	30	...	...	...	2·10	−1·01	0·77	7	24	0	0	0
Newfoundland—																																										
*Amour Point	51	28	56	51	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Burin	47	0	55	10	27	30·01	30·43	29·29	1·14	53·1	-	3	68·0	22	33·0	16	18·2	...	...	...	...	2	3	6	4	8	6	7	23	1	60	...	...	...	9·12	—	1·40	17	13	1	1	2
*Cape Norman	51	38	55	52	...	...	...	...	...	48·2	...	29	60·0	6	35·0	30	—	...	...	...	...	1	5	0	6	8	11	15	14	0	90	...	...	...	2·42	+0·32	0·18	10	21	3	0	5
Fogo	49	13	51	17	30	29·96	30.40	29·43	0.97	52·2	--	2	66·0	9	38·0	16	9·9	...	...	...	...	6	2	1	7	3	9	14	10	4	56	...	...	...	3·15	—	0·68	16	14	0	0	0
*Point Rich	50	42	57	25	35	...	...	...	...	51·2	...	27	61·0	19	41·0	26	—	...	...	...	...	2	10	1	10	4	6	46	11	0	90	...	...	...	2·42		1·08	9	21	0	5	1
Port aux Basque	47	35	59	10	27	29·98	30·39	29·32	1·07	51·3	—	3	63·5	21	34·5	15	10·4	...	...	...	...	2	6	14	1	6	4	18	8	1	60	...	...	...	5·07	—	0·99	16	14	0	1	0
St. John's	47	31	52	42	125	29·92	30·35	29·44	0·91	54·7	+ 1·0	39	74·0	20	36·0	30	13·1	...	...	6	6	4	8	7	5	9	12	14	3	0	60	...	...	...	11·12	+7·97	1·17	18	12	0	0	4
Bermuda—																																										
Prospect	32	17	64	16	151	30·11	30·31	29·65	0·66	77·2	− 0·6	21	86·8	10	65·4	28	11·3	...	...	...	...	4	6	2	9	11	15	4	5	4	60	...	...	...	2·94	−2·30	1·62	11	19	0	5	0

Precipitation at Stations reporting Rain, Snow, Weather, &c., during September, 1911.

Stations.	Rainfall.					Snowfall.				Remarks.
	Amount in inches	No. of Days '01 or over	No. of Fair Days	Heavie t Fall in Month	Date	Date.	He viest Fall in Month	No. of Days.	Amount in Inches	
British Columbia—										
Alkali Lake	2 09	10	2	1 20	20					
Annis	1 80	12	18	0 80	13					
Beaver Lake	2 03	10	20	0 46	12					
Coquitlam	4 10	9	21	1 78	11					
Denman's Island	2 62	10	29	0 81	14					
Ferguson	2 97	8	12	0 61	3					
Goldstream Lake	2 06	14	16	0 69	15					
Hydraulic	3 07	12	18	0 46	27					
Hornby Island	2 20	8	12	0 75	14					
Jordan River	4 52	14	16	1 33	15					
Jordan River (Bear Creek)	5 59	13	15	1 20	11					
LittleQualicum (French Creek, V.I.)	2 05	5	25	0 75	18					
Monte Creek	1 29	7	23	0 60	3					
Naas Harbour	3 61	11	19	0 48	17					
Skidegate										
Shawnigan Lake	1 74	11	16	0 52	15					
Alberta—										
Hardo	0 10	1	29	0 10	15					½ ice on 22nd.
Bismark	2 01	4	25	0 80	16	2 0	1	2 0	21	
Bruederheim	1 16	5	24	0 78	15					
Bittern Lake	0 46	6	24	0 18	16					
Brooks	0 55	6	23	0 37	17	1 5	1	1 5	23	
Conjuring Creek										
Coutts										
Campsie	1 48	6	23	1 11	15		1		23	
Caldwell	6 12	9	21	2 19	3	4 0	1	4 0	5	
Dorenlee	1 35	4	26	0 80	18					
Dunstable	1 70	12	18	1 10	16					
Grassy Lake	1 40	6	23	0 40	6	1 0	1	1 0	22	
Jumping Pound										
Lacombe										
Loch Sloy	1 85	10	19	0 81	4	1 0	1	1	22	
Lyndon	5 17	4	26	2 84	6					
Lineham	0 30	1	27	0 30	6	1 8	2	1 0	24	
Macleod	5 9	6	22	1 66	1	1 5	2	2 0	5 23	
Miuda (Many Berries R.)										
Mayeroft	2 41	8	20	1 39	1	7 0	2	5	22	
Nateby	0 67	3	26	0 31	2	0 1	2	0 1	22	
Okotoks	1 53	5	24	0 46	1	7 0	1	7 0	23	
Pekisko	1 67	7	20	1 00	3	9 8	3	5 5	22	
Ponoka	2 53	6	23	2 10	18	1 0	1	1 0	19	
Priddis										
Playle Creek	1 57	6	22	2 37	1		2		5 6	
Sion	1 95	10	24	0 12	15					
Seven Persons	1 65	5	25	2 80	5					
Tilley										
Saskatchewan—										
Carmichael										
Coulee										
Elm How										
Forks Swift Current (Gull Lake)	3 10	6	23	1 30	4	3 0	1	3 0	22	
Gull Lake	1 71	4	25	0 92	5	6 0	1	6 0	23	
Gravelbourg	2 27	4	26	1 57	1					
Hanley										
Kindersley										
Last Mountain	0 88	7	23	0 46	16-19					
Maple Creek	2 61	11	18	0 79	4	3 0	1	3 0	21	
Meadow Lake	1 16	3	24	0 62	25		2		21 23	
Willow Creek	1 09	5	25	3 13	7					
Manitoba—										
Cartwright	2 35	9	21	0 67	28					
Deloraine										
Gretna	1 18	5	25	0 16	28					
Norquay	3 25	10	20	0 47	25		2		26 27	
Rapid City	1 69	6	23	0 56	28		1		23	
Rosebank										
Ontario—										
Deer Park	2 35	10	20	0 51	29					
Dutton	2 30	7	23	0 80	28					
Ensdale	1 79	9	21	0 43	25					
Georgetown	3 76	14	16	0 79	30					
Grantham	2 07	12	18	0 44	6					
Grand Valley	4 62	11	19	0 38	3					
MacCue	2 30	8	22	0 56	11					
Orangeville	3 62	8	22	1 05	2					
Princeton	2 50	8	22	0 52	29					
Sydenham	2 05	5	25	0 85	5					
Strathroy	2 50	7	23	1 19	29					
Watford	3 11	11	19	0 91	29					
Westport	1 86	7	23	0 74	6					
Wooler	2 11	9	21	0 45	11					
Westminster	2 62	5	25	1 01	11					
Wesley	4 16	10	20	0 98	12					
Quebec—										
Kepawa										
Lucerne	2 40	8	22	0 75	21					
Perkins Mills	2 91	9	21	0 74	15					
Quinze Dam										
Timiskaming	1 61	9	21	0 54	11	1 5	1	1 0	29	
New Brunswick—										
Point Escuminac	1 86	9	21	0 53	26					
Nova Scotia										
Kentville	1 91	10	20	1 72	30					
Kedgemakooge Lake (New Grafton)	5 11	8	22	1 92	20					
Liverpool	5 28	9	21	1 [illegible]	1					
Milton (Rapid Falls Mill)	5 87	9	21	1 95	1					
South Alton	6 19	12	18	2 32	30					
White Rock	5 21	9	21	1 86	30					

MEAN PROPORTION OF BRIGHT SUNSHINE REGISTERED IN EACH HOUR OF THE DAY IN THE MONTH OF SEPTEMBER, 1911.

STATIONS.	Hours Ending															
	5 a.m.	6 a.m.	7 a.m.	8 a.m.	9 a.m.	10 a.m.	11 a.m.	Noon.	1 p.m.	2 p.m.	3 p.m.	4 p.m.	5 p.m.	6 p.m.	7 p.m.	
Victoria		·01	·07	·36	·42	·52	·56	·58	·58	·55	·51	·48	·45	·17		
Salmon Arm			·13	·37	·46	·56	·66	·57	·65	·48	·45	·41	·31	·11		
Nanaimo																
Vancouver			·06	·18	·30	·48	·48	·49	·52	·58	·53	·56	·41	·14	·03	
Agassiz			·04	·20	·45	·46	·43	·45	·51	·45	·47	·34	·16	·01		
Tranquille		·03	·25	·39	·51	·61	·57	·60	·60	·58	·58	·59	·36	·19	·03	
Summerland		·09	·27	·46	·55	·52	·52	·57	·52	·48	·51	·39	·07			
Kamloops		·01	·22	·41	·53	·60	·68	·65	·61	·58	·66	·51	·36	·06	·01	
Edmonton		·02	·22	·43	·68	·73	·75	·74	·68	·70	·66	·53	·41	·22	·01	
Lethbridge		·01	·38	·56	·63	·64	·67	·68	·70	·68	·62	·58	·55	·36	·02	
Lacombe			·08	·42	·59	·65	·70	·70	·71	·59	·57	·47	·48	·19		
Medicine Hat			·17	·48	·54	·58	·65	·68	·71	·68	·59	·40	·29	·11		
Fort Vermilion				·04	·23	·37	·53	·67	·67	·61	·64	·62	·54	·16	·15	
Battleford			·05	·24	·39	·45	·55	·57	·53	·48	·48	·48	·36	·11		
Indian Head		·02	·15	·34	·54	·52	·52	·59	·58	·54	·53	·49	·33	·12	·01	
Moosejaw		·02	·15	·41	·50	·57	·52	·57	·58	·57	·63	·58	·47	·14	·03	
Scott		·01	·07	·39	·51	·49	·56	·57	·65	·66	·62	·63	·48	·07	·02	
Rosthern			·14	·52	·52	·54	·59	·70	·76	·68	·63	·63	·50	·24		
Brandon			·07	·33	·54	·57	·62	·57	·61	·56	·57	·46	·21	·07	·02	
Winnipeg			·10	·40	·49	·43	·40	·38	·49	·53	·55	·49	·45	·18		
Haileybury		·02	·34	·50	·55	·55	·69	·69	·70	·73	·67	·60	·55	·38	·03	
Gravenhurst																
Woodstock			·01	·25	·57	·64	·59	·66	·60	·59	·55	·54	·42	·10		
Lindsay				·10	·51	·62	·63	·66	·67	·65	·63	·52	·47	·33		
Barrie			·21	·56	·58	·61	·58	·63	·59	·56	·56	·56	·51	·21		
Toronto			·13	·55	·65	·68	·66	·67	·64	·68	·67	·62	·56	·34	·01	
Kingston		·01	·05	·20	·41	·55	·63	·69	·73	·70	·65	·62	·60	·51	·19	·02
Ottawa				·22	·52	·59	·68	·70	·66	·70	·65	·71	·61	·59	·31	
Montreal		·04	·31	·60	·65	·70	·70	·66	·63	·65	·65	·64	·60	·19		
Quebec			·09	·31	·44	·43	·52	·51	·57	·53	·55	·52	·53	·08		
Sherbrooke			·13	·33	·47	·50	·55	·54	·58	·58	·58	·56	·58	·10		
Fredericton		·01	·17	·43	·48	·48	·55	·51	·54	·53	·46	·48	·41	·20	·04	
Charlottetown		·04	·26	·47	·56	·54	·50	·49	·51	·53	·49	·47	·39	·21	·02	

—	Victoria.	Salmon Arm.	Nanaimo.	Vancouver.	Agassiz.	Tranquille.	Summerland.	Kamloops.	Edmonton.	Lethbridge.	Lacombe.	Medicine Hat.	Ft. Vermilion.	Battleford.	Indian Head.	Moosejaw.	Scott.	Rosthern.	Brandon.	Winnipeg.	Haileybury.	Gravenhurst.	Woodstock.	Lindsay.	Barrie.	Toronto.	Kingston.	Ottawa.	Montreal.	Quebec.	Sherbrooke.	Fredericton.	Charlottetown.
Registered duration in hours.	158	155	...	114	119	175	164	178	204	213	186	176	166	110	159	173	172	194	155	146	210		165	171	185	206	198	210	211	151	173	157	165
Percentage of possible duration %	42	41	..	37	32	46	43	47	54	57	49	47	43	37	42	46	45	51	41	39	56		44	47	49	55	53	56	61	41	46	42	44
Difference from average %	−3	.	.	.	+1	.	..	..	.	.	.	.	..	−8	+3	.	.	..	−5	−7	.		5	5	+1	+0	+2	+12	+8	.	.	+4	.
Maximum percentage in one day %	88	88	.	90	73	97	91	90	89	95	86	84	80	79	93	96	81	88	89	90	98	..	86	81	89	92	95	93	100	83	91	96	98
Date of maximum	17	11	.	1	11	11	11	19	7	25	2	1	5	8	2	2	1	12	2	2	13	..	3	13	17	3	3	13	3	11	18	4	2
No. of days completely clouded	5	5	.	5	12	6	2	2	2	4	2	5	3	2	.	5	4	3	5	9	2		5	1	2	1	0	5	4	5	8	5	8

Aurora recorded :—

Where the class of aurora is noted by the observer, it is given, (I), being the brightest, (IV) the feeblest in brilliancy.

1. Treherne III, Waitefield III, Aitkensville IV, Sion, Glenbryan I.
2. Aitknsville IV, Sion, Fort Vermilion IV.
3. Red Deer I, Sion.
4. Red Deer I, Aitkensville IV, Sion, Campsie IV, Muenster IV, Cape Norman I, Fort Vermilion II.
5. Red Deer I, Sion.
6. Red Deer I, Aitkensville IV, Sion, Fort Vermilion II.
7. Sion, Gravenhurst IV.
8. Sion.
10. Sion, Glenbryan, Grand Manan IV.
11. Aitkensville III, Sion.
12. Chicoutimi, Sion, Campsie IV Muenster IV.
13. Haileybury IV.
14. Aweme II, Kakabeka Falls III, Sion III, Quebec IV, Cape Norman II.
15. Emsdale II, Hillview I, Treherne IV, Aweme III, Aitkensville III, Crescent Lake III, Divide III, Yellow Grass, Dawson II, Haileybury IV, Cape Norman II, Barrie IV, Kenora I.
16. Lake Talon IV, Yarbo III.
18. Sion IV, Fort Vermilion IV.
19. Cartwright III, Georgetown IV, Hillview I, Aweme II, Oakbank III, Halkirk, Agincourt IV, Kakabeka Falls III, Bruce Mines, Lucknow IV, Clinton, I, Red Deer I, Hillsdown, IV, Aitkensville II, Sion IV, Lake Talon, Crescent Lake II, Estevan III, Summerland, Nicola, Cranbrook, Port Stanley III, Dawson IV, Haileybury II, Delia III, Barrie III.
20. Treherne IV, Agincourt III, Birnam IV, Cape Magdalene, Yarbo IV, Minnedosa I, Dawson II, Haileybury III, Fort Vermilion III.
21. Cartwright IV, Treherne I, Waitefield III, Agincourt IV, Kakabeka Falls III, Lucknow IV, Birnam IV, Sion II, Campsie IV, Dawson I, Fort Vermilion I, Fort St. James.
22. Chicoutimi, Sion III, Lake Talon, Waseca, Quebec IV, Father Point III, Fort Vermilion I.
23. Treherne II, Lake Talon IV.
25. Waitefield IV, Renfrew, Sion, Melfort.
26. Hillview IV, Aweme IV, Chicoutimi, Yarbo III, Divide IV, Father Point III, Haileybury III, Gravenhurst IV.
27. Kakabeka Falls IV, Crescent Lake III, Divide IV, Fort Vermilion IV.
28. Sion IV, Chaplin IV, Quebec IV, Fort Vermilion II, Oliver.
29. Waitefield IV.
30. Waitefield IV, Sion IV, Fort Vermilion III.

Thunder recorded :

1. Hillview, Agincourt, Lost River, Princeton, Uplands.
2. Wesley, Westport, Princeton, Georgetown, Deer Park, Wooler, Point Clark, Paris, Lucknow, Madoc, Chicoutimi, London, Gravenhurst, Lindsay, Chicoutimi West, Shawinigan Falls, Disraeli, Lake Edward, Tobacco Plains, Summerland, North Nicomen, Chilliwack, Chilcoten, Parry Sound, Minnedosa, Quebec, Chatham, N.B., Port Arthur, Ottawa, Port Stanley, Southampton, Montreal, Toronto, Hope.
3. Aweme, Windsor, N.S., Harmattan, Crescent Lake, Chaplin, Divide, Pense, Glenbryan, Rathmullen, Yellow Grass, Kelvinhurst, Hydraulic, Annis, Rossland, Grand Forks, Salmon Arm, Nelson, Chilliwack, Fredericton, Charlottetown, St. John, N.B.
4. Chaplin.
5. Bruce Mines, Birnam, Pelee Island, Chilcoten.
6. Hydraulic, Chilcoten, Bella Coola.
7. Chilcoten.
8. Dunstable, Campsie, Chilcoten.
9. Gravenhurst.
10. Halkirk, Grand Forks, Salmon Arm, New Westminster, Chilliwack, Quebec, Montreal, Hope.
11. Wesley, Emsdale, Georgetown, Deer Park, Wooler, Point Clark, Morden, Beatrice, Agincourt, Renfrew, Paris, Bruce Mines, Aurora, Lucknow, Peterboro', Madoc, Clinton, Birnam, Brantford, Bloomfield, Pelee Island, Montague, Moncton, Lake Talon, Steveston, North Nicomen, New Westminster, Chilliwack, Southampton, Toronto, Gravenhurst, Lindsay, Uplands, Hope.
12. Westport, Princeton, Treherne, Morden, Brome, Disraeli, Point Lepreaux, Windsor, N.S., Owen Sound, Annis, Crawford Bay, Rossland, Summerland, Steveston, Salmon Arm, Princeton, North Nicomen, Nicola, Golden, Chilliwack, Chilcoten, Alberni, Fredericton, Charlottetown, St. John, N.B., Ottawa, Port Stanley, London, Hope.
13. Westport, Athabasca Landing, Waitefield, Caldwell, Dunstable, Campsie, Chaplin, Divide, Scott, Glenbryan, Fort Vermilion.

14. Rapid City, Point Clark, Carberry, Paris, Lucknow, Birnam, Crescent Lake, Chilliwack.
15. Princeton, Georgetown, Waitefield, Agincourt, Brantford, Bardo, Pakan, Crescent Lake, Chaplin, Pense, Lost River, Crawford Bay, Clayoquot, Alberni, Port Stanley, Toronto, Bruederheim.
16. Oakbank, Renfrew, Montague, Brome, Shawinigan Falls, Yarbo, Salmon Arm, Montreal.
17. Gretna, Almasippi.
18. Kakabeka Falls.
19. Emsdale, Princeton, Georgetown, Almasippi, Paris, Harmattan, Okotoks, Dunstable, Chaplin.
20. Hillview, Harmattan, Crescent Lake, Prince, Sydney.
21. Alberni, Bella Coola.
22. Kakabeka Falls, Port Arthur.
24. Lucknow.
25. Agincourt, Toronto.
26. Yarmouth.
27. Renfrew, Birnam, Pelee Island.
28. Dunstable, Hydraulic.
29. Dunstable, Last Mountain, Crescent Lake, Chaplin, Lost River, Muenster, Hydraulic, Annis, Crawford Bay, Salmon Arm, Nelson, Enderby.
30. Yarbo.

FORECASTS FOR SEPTEMBER, 1911.

The forecasts issued by this office at 11 p.m. each night are posted up at every telegraph station in Canada, and are for the 24 hours beginning at 8 a.m. the following day.

The number of these predictions issued during the month was 1264. These were divided as follows :—

District.	No. Issued.	Verified.			
		No. Fully	No. Partly	No. Not	Per-centage.
Alberta	78	60	16	2	87·2
Saskatchewan	80	62	14	4	86·3
Manitoba	81	60	16	5	83·9
Lake Superior	113	61	31	15	71·7
Georgian Bay	122	87	30	5	83·6
Ottawa Valley	97	73	15	9	83·0
Upper St. Lawrence	97	73	15	9	83·0
Lower Lakes	122	92	25	5	85·7
Lower St. Lawrence	119	88	18	13	81·5
Gulf	118	87	25	6	84·3
Maritime Provinces West	119	87	25	7	85·6
Maritime Provinces East	118	82	29	7	81·8
Total	1264	915	262	87	82·8

In order to obtain the percentage of verification of the predictions, the number partly verified is divided by two and added to the number fully verified, and the result divided by the total number issued.

In ascertaining to what extent the predictions have been verified, the reports from the agents at all observing stations, as well as the telegraphic reports, are used.

R. F. STUPART, Director.

Meteorological Office, Toronto.

DEPARTMENT OF MARINE AND FISHERIES, CANADA.

METEOROLOGICAL SERVICE.

Monthly Weather Review.

VOL. XXXV. OCTOBER, 1911. No. 10.

INTRODUCTION.

In compiling the present Review the principal data made use of are the telegraphic reports of observations received at this office for the purpose of weather forecasting, and reports by mail from voluntary observers and storm signal agents. For the data used in tracing the paths of areas of high and low pressure in the United States, we are indebted to the Chief of the Weather Bureau, Washington, D.C.

TEMPERATURE.

The mean temperature of October differed very little from average in the province of British Columbia. On Vancouver Island, the coast-line and the Kootenays and Okanagan Valley the difference was negative, but in most cases did not exceed 1°, and, in fact, was generally negligible. Over a portion of the valley of the Lower Fraser and that of the North Columbia the normal temperature was exceeded by less than 1°.

At Edmonton there was very little difference from normal October temperature, but elsewhere in Alberta there appeared to be a deficiency of about 2°.

In the northern sections of Saskatchewan there was a positive difference from normal, amounting to 2° or less, while, nearer the boundary line, negative differences of equal value were reported.

The mean temperature of the province of Manitoba, as a whole, was a little more than 1° higher than normal, although there were local exceptions.

Although in New Ontario mean temperatures were in all instances less than average; and in the Ottawa Valley and many of the eastern counties, higher than average: yet these differences were in nearly all cases so small that that they may be neglected altogether.

In the counties on the Gulf of the St. Lawrence less than normal temperature was recorded, the difference in most instances amounting to about 1°; but along the river the average was exceeded by 1° at Quebec city and by 2° at Montreal. In the "Eastern Townships," however, temperature conditions were approximately normal.

Over the greater part of the Maritime Provinces the temperature of the month was from 1° to 2° lower than average.

The highest and lowest temperatures recorded in each Province during the month of October, 1911, were:

	HIGHEST.	LOWEST.
British Columbia,	91° at Crawford Bay on the 7th,	9° at Golden on the 28th.
Alberta,	84° at Cardston on the 9th,	—3° at Fort Vermilion on the 31st.
Saskatchewan	87° at Chalgoness on the 9th,	3° at Luseland on the 31st.
Manitoba,	85° at Swan River on the 9th,	3° at Swan River on the 31st.
Ontario,	78° at Lorne Park on the 9th,	4° at White River on the 31st.
Quebec,	72° at La Tuque on the 12th,	13° at Lake Edward on the 30th.
New Brunswick,	73° at St. Stephen on the 11th.	17° at St. Stephen on the 30th.
Nova Scotia,	74° at Antigonish on the 24th,	16° at Truro on the 29th
P. E. Island,	66° at Charlottetown on the 23rd,	72° at Charlottetown (2) on the 29th.

PRECIPITATION.

Throughout the province of British Columbia there was a deficiency of rain, the difference from average being in many cases very large.

The rainfall in south-eastern Alberta was very little less than normal, but elsewhere in that province the deficiency was considerably greater.

In the northern sections of Saskatchewan less than the usual amount of rain was recorded, but in the central and eastern districts precipitation was plentiful, as it was in Manitoba also.

In New Ontario there was a moderate deficiency, and also in the Ottawa Valley, but throughout the remainder of Ontario there was an excess of approximately 20.

Except on the Island of Anticosti, there was reported a general lack of rain in the province of Quebec. In most cases the deficiency amounted to one-third of the average and in some instances to one-half.

The precipitation in the Maritime Provinces was very light and almost amounted to a drought in some counties. The differences from average were very large. At some places, indeed, scarcely one-fifth of the normal amount was registered.

ATMOSPHERIC PRESSURE.

The value of the mean atmospheric pressure for October exceeded the normal throughout Canada. There was a difference from average of over 0·10 of an inch in Alberta and Northern British Columbia, but in other parts of the Dominion the departure was small, being generally about 0·05 of an inch. In parts of Northern Ontario the normal was just exceeded, the difference at White River being only 0·01 of an inch.

HIGH AREAS.

Nine areas of high pressure were charted; one first appeared in the Yukon Territory, one in Northern British Columbia, one in Northern Saskatchewan, two to the northward of Lake Superior and four on the coasts of the Northern Pacific States. Three of the areas passed over the Great Lakes and two each to the northward and southward respectively, while the two remaining areas were dispersed before reaching the Great Lakes. In nearly all instances the systems were of very moderate energy.

LOW AREAS.

Fourteen areas of low pressure were charted. Three first appeared in the Yukon Territory, one in Northern British Columbia, one in Northern Saskatchewan, two in the West Pacific States, one in the Western States, two in the Gulf of Mexico, one off the North Carolina coast and one in the Lower St. Lawrence Valley. A few only of the areas were of importance, the majority being of feeble energy, and at least a third of the whole number dispersed after having travelled only a comparatively short distance.

WINDS, OCTOBER, 1911.

PROVINCES AND STATIONS.	Total Mileage.	Greatest Mileage in 24 hours.	Greatest Mileage in one hour.	Number of days of Gales.	Number of days of Strong Winds.	Number of days of Fresh Winds.	General Direction.
British Columbia.							
Victoria	3558	280	22	.....	2	6	N.
Steveston	1787	328	29	...	6	8	N. & E.
Alberta.							
Edmonton	4125	435	23	....	4	4	
Calgary	1919	339	27	.....	7	6	N.W.
Saskatchewan.							
Battleford	6291	572	32	1	8	9	W.
Prince Albert	3501	183	13	.....	..	1	Variable.
Manitoba.							
Winnipeg	7711	481	29	....	11	12	W.
Keewatin.							
The Pas	5841	305	23	....	7	7	W.
Ontario.							
Port Arthur	6905	403	42	3	3	11	NW. & W.
Parry Sound	6999	461	27	.....	8	5	SW.
Southampton	7424	507	40	1	5	13	S.
Woodstock	5688	465	25	.....	6	15	SW.
Toronto	9396	700	55	4	8	9	SW. & W.
Quebec.							
Quebec	8051	602	34	3	9	12	SW.
Father Point	11302	822	49	8	13	9	W. & NW.
Maritime Provinces.							
Fredericton	5788	414	27	....	5	14	NW.
St. John	8981	605	39	6	10	5	N.W.
Pt. Lepreaux	11611	710	42	7	17	5	NW.
Halifax	8246	503	31	2	6	17	N.W.
Flat Point	11456	784	52	9	12	4	N. & SW.
Charlottetown	6077	373	23	.....	6	12	SW. & NW.

PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA. OCTOBER, 1911

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

STATION.	Latitude N.	Longitude W.	Elevation above sea level, in feet.	PRESSURE. Mean reduced.	Highest.	Lowest.	Range.	TEMPERATURE. Mean.	Difference from average.	Years observed	Highest.	Date.	Lowest.	Date.	Mean daily range.	Mean temperature of dew point.	Mean relative humidity.	Mean amount of cloud.	No. of days completely clouded.	DIRECTION OF WIND FROM N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.	Total number of observations.	VELOCITY OF WIND. Mean miles per hour.	Highest day's velocity.	Date and direction from.	PRECIPITATION. Amount.	Difference from average.	Heaviest fall in month.	Days with .01 or more.	No. of fair days.	No. of mist days.	No. of thunder storms.	No. of fogs.
	°	°		in.	in.	in.	in.	°	°		°		°																												
BRITISH COLUMBIA—																																									
Alberni (Beaver Creek)	49 15	124 49	300					51·4	− 0·5	16	71·0	15	30·0	26 28	22·5																		3·47	− 2·35	1·77	9	12	0	0	0
Agassiz	49 14	121 31	52					50·9	+ 2·2	21	71·0	10	30·0	27	28·5																		3·67	− 1·93	0·95	12	19	0	0	0
Atlin	59 35	133 38	2210	30·01	30 6	29·25	1·43	36·9	−	6	63·5	12	17·0	31	10·0			8	13														0·50		0·11	2	12	3	0	7
Barkerville	53 2	121 35	4180	30·07	30·56	29·55	1·01	37·6	+ 0·9	23	68·0	8	11·0	25	18·1			4	4	0	0	0	1	0	7	0	0	2	17	62	2·7	10·0	0·81	− 2·01	0·35	4	25	0	0	0
Bella Coola	52 10	126 51	150					41·5	1·0	12	66·0	2	22·0	30	21·3																		1·71	− 1·47	1·62	8	23	0	0	5
Babine Lake	55 38	126 26																																							
Boswell	49 19	116 11																																							
Chilcoten (Big Creek)	51 40	123 0	3100					39·1		8	67·0	8	12·0	18 31	25·0																		0·10		0·10	1	30	0	0	0
Cranbrook	49 30	115 50						40·2		3	85·0	8	10·0	28 29	32·6																		0·17		0·12	2	29	0	0	0
Clayoquot	49 14	125 17	40					50·4	+ 0·6	12	69·0	1	33·0	26	16·1																		2·19	1·26	2·75	10	21	0	0	0
Cowichan (Tzouhalem)	48 25	123 42	170					49·0		5	65·9	7	28·6	26	19·9																		1·28		0·39	10	24	0	0	0
Chilliwack	49 10	121 57	21					50·5	+ 0·5	13	73·0	7	27·0	28	21·0																		1·10	0·53	0·45	9	22	0	0	1
Crawford Bay	49 15	116 45	2000					45·7	—	3	91·0	7	23·0	27 28	26·7																		0·45		0·26	3	25	0	0	0
Enderby	50 32	119 7	1180					42·9	—	3	74·0	8	11·0	27	31 29	9·9																		0·20		0·17	2	20	0	0	0
Fort St. James (Stuart's Lake)	54 28	124 12	2280					37·8		18	63·0	7	9·0	26 29	20·0																		0·65	0·18	0·17	4	15	0	0	0
*Fairview	49 11	119 26																																							
Fruitvale	49 9	117 31																																							
Glacier	51 14	117 29	4072					36·8	—	9	55·0	10 13	19·0	26 30	14·1																		0·20	—	0·11	4	25	0	0	0
Golden	51 16	116 55	2550					38·0		10	67·0	10 11	9·0	28	26·2																		1·42		0·50	4	25	1	0	0
Grand Forks	49 2	118 27						43·1		1	78·0	8	15·0	30	28·7																		0·08		0·04	3	28	0	0	0
Greenwood	49 5	118 49																																							
Holberg	50 39	128 18						47·4		3	79·0	9	23·0	27	21·0																		12·67		1·09	13	18	0	0	0
Hedley	49 35	120 10	1771					46·5	—	6	79·0	9	23·0	27	24·0																		0·21		0·12	3	28	0	0	0
Hedley (Nickel Plate)																																								
Hope	49 23	121 25						49·8	—	2	72·0	8	31·0	28 30	18·7																		1·33		0·52	7	21	0	0	0
Ikeda Bay	52 17	131 7	5					47·8		1	58·0	3	33·0	28	5·8																		1·39		0·95	12	19	0	0	0
Kamloops	50 41	120 29	1245	30·05	30·57	29·19	1·08	48·0	0·5	19	87·8	8	19·0	31	24·8		70	4	9	1	3	10	6	7	11	13	2	9	62	1·2	17·0	8 8W	0·61	− 0·50	0·63	1	30	0	0	0
Ladner	49 5	123 4						49·6	—	9	63·0	12 14	26·0	27	20·8																		2·70	− 1·47	0·65	8	23	0	0	0
Massett, Q.C.I.	53 58	132 9	30					48·0	+ 1·6	13	62·0	13	33·0	21 28	10·9																		3·37	2·06	0·96	17	11	0	0	5
aNanaimo	49 10	123 37	125	30·01	30·36	29·31	1·02	48·9	0·6	11	65·2	1	32·0	29 30	13·4		92	5	10	0	0	1	7	0	3	2	10	39	62	3·1	20·0		1·11	1·98	0·31	7	23	0	0	7
Nicola Lake	50 9	120 39	2120					47·7	+ 3·0	16	76·0	9	19·0	30	24·5																		0·23		0·16	3	30	0	0	0
North Nicomen	49 12	122 2	59					51·2	+ 0·6	18	72·0	7	31·0	28	18·1																		1·79	− 5·71	0·59	7	24	0	0	0
New Westminster	49 13	122 54	330					50·3	+ 0·1	24	71·1	7	33·1	26	15·1																		1·90	− 2·20	0·61	9	22	0	0	6
Nelson	49 29	117 21	1790					45·0	—	9	67·0	11	22·0	30	21·0																		0·82		0·25	6	25	0	0	0
Needles	49 10	118 9						45·0	—	2	63·0	11 15	23·0	28	24·2																		0·16		0·10	1	30	0	0	0
Okanagan Mission (Kelowna)	49 52	119 29	1200					44·4	− 1·3	12	72·0	16	20·0	30	22·7																		0·18	0·18	0·10	2	29	0	0	0
Princeton	49 29	120 30	1650					43·2	− 2·8	17	80·0	8	15·0	28	31·3																		0·27	0·52	0·22	3	28	0	0	0
Penticton	49 29	119 35						46·7		5	73·5	7	22·5	28	21·9																		0·23		0·11	3	28	0	0	0
Pemberton Hatchery	50 20	122 33						45·6	—	1	64·0	1	25·0	30	19·7																		0·46		0·29	3	25	0	0	0
Prince Rupert	54 18	130 18	170	29·97	30 13	29·62	1·41	48·4		4	66·0	12	33·0	27	12·2		81	7	15	1	1	5	0	13	6	6	2	1	30	2·6	10·0		7·49		2·09	14	17	0	0	1
Quesnelle	52 59	122 30	1700					41·7	− 1·3	16	75·0	8-9	13·0	31	22·2																		0·39		0·77	6	17	3	28	0	0	0
Revelstoke	51 0	118 6	1476					42·6		12	65·0	7 10	20·0	28 31	21·7																		0·46	3·70	0·43	3	25	0	0	0
Rossland	49 5	117 48	3400					41·9		8	61·5	8	26·5	28 31	13·4																		0·61		0·32	4	27	0	0	1
Ruskin (Stave Falls)	49 16	122 23	125					51·3		2	72·0	8	31·0	28-31	18·2																		2·62		1·62	7	21	0	0	0
Salmon Arm	50 12	119 35	1152					44·3		6	71·0	8	18·0	28	21·2																		0·33		0·32	2	29	0	0	0
Salmon Arm (Ex. Farm)								44·8		1	76·0	7	19·0	28	27·8																		0·01		0·01	1	30	0	0	0
Steveston (Garry Point)	49 21	123 17						46·8	1·2	16	69·0	8	27·0	26	28 16·1																		1·21	2·01	0·35	11	20	0	0	3
Swanson Bay	50 37	126 53						48·6		4	65·0	1	33·0	27	9·6																		35·77	—	8·96	12	19	0	0	0
Summerland	49 57	119 0	1100					46·3	—	5	72·0	7-8	23·0	28	20·6																		0·13	—	0·13	1	30	0	0	0
Sooke	48 11	123 44	25																																						
Stewart	56 1	130 1	215					41·7	—	2	56·0	12	21·0	28 29	9·9																		6·23		1·30	17	14	0	0	0
Tobacco Plains (Elko)	49 1	115* 5	2681					43·3	0·9	15	66·1	7-11	17·0	27 29	20·3																		0·36	− 0·62	0·33	2	29	0	0	1
Triangle Island	50 52	129 5	680	30·07	30·32	29·33	1·17	45·6	—	2	52·0	5	40·0	16 17	5·5		9	23		11	3	1	12	1	22	2	7	0	62	13·8	48·0	7 SW	10·70		3·10	21	10	0	0	25

*a*Tranquille	50	41	120	29		28·77	29·22	28·11	1·11	47·7	—	4	81·0	8	19·0	28	21·6		68	3	0	23	13	10	3	1	1	3	5	0	62				0·02	—	0·02	1	30	0	0	0
Vernon (Coldstream Ranch)	50	14	119	15	1575					45·8	+ 0·6	18	71·0	8	19·0	28, 31	21·4																		0·07	−0·61	0·07	1	30	0	0	0
Victoria	48	24	123	19	85	30·07	30·42	29·47	0·95	50·0	− 1·5	19	66·5	7	33·5	29	14·5		83	6	7	20	3	3	5	9	7	5	9	2	62	5·6	18·0	9SE	0·61	−1·65	0·18	7	21	0	0	5
Vancouver	49	17	123	5	136	30·09	30·41	29·54	0·87	49·7	− 1·0	11	73·2	7	33·0	29	12·7		87	6	9	1	1	18	4	0	2	8	5	23	62	2·1	10·0	9SE	2·24	−3·60	0·73	12	19	0	0	8
Winter Harbour	50	32	128	3																																						
Wilmer	50	34	116	14						—	—	2	—		12·0	29	—																		0·37	—	0·22	2	29	0	1	0
YUKON :—																																										
Carcross	60	11	134	31	2171					37·4	—	5	56·0	12	19·0	25	12·[illegible]																		1·12	—	0·85	5	26	0	0	0
Dawson	64	4	139	20	1200					29·7	—	10	55·0	10	4·0	30, 31	11·6			6	4	8	0	4	4	11	1	0	0	31	62				1·60	—	0·8	7	24	0	0	0
ALBERTA—																																										
Athabasca Landing	54	43	113	17	1650					38·3	—	11	77·0	10	0·0	31	27·2					4	2	3	1	2	4	7	8	0	31				0·38	—	0·31	2	29	0	0	0
Alix	52	24	113	10						39·1	—	6	72·0	9	11·0	27, 29	22·4					1	0	0	2	6	6	1	11	1	31				0·71		0·21	5	26	0	0	4
Banff	51	10	115	34	4542	30·15	30·71	29·69	1·02	37·1	− 2·3	7	61·5	7	6·8	26	23·4				0	0	5	8	5	1	18	5	3	17	62				0·56	0·58	0·46	4	27	2	0	0
Blairmore	49	40	114	30	4225					—	—	2	77·2	8	2·4	25	—																		—	—				0	0	0
Calgary	51	2	114	2	3389	30·06	30·60	29·52	1·08	40·4	1·7	27	74·0	7, 9	11·0	25-27	22·5				1	7	6	2	6	1	1	7	27	2	62				0·51	0·02	0·31	5	26	1	0	0
Cardston	49	12	113	18						41·5	—	7	84·0	9	5·0	31	36·9																		1·37	—	0·57	5	26	0	0	0
Didsbury	51	40	114	8	3300					41·7	—	10	76·0	8, 9	10·0	25	23·0					0	2	1	3	1	9	2	11	2	31				0·92	—	0·62	3	28	0	0	0
*a*Dunvegan	55	56	118	35	1305										10.5																											
Daysland	55	52	112	17																																						
Delia	51	38	112	25						39·1	—	1	74·1	9	10·5	25	21·5																		0·82	—	0·60	3	28	2	0	0
Edmonton	53	33	113	30	2158	30·05	30·67	29·53	1·21	41·7	− 0·5	29	79·0	9	11·0	25	24·6				5	1	5	1	5	12	11	13	9	2	62				0·51	−0·25	0·49	2	29	1	0	2
Eckville	52	23	114	22																																						
Endiang	51	58	112	6	2795					38·3	—	2	77·0	7	3·4	31	22·7																		0·45	—	0·25	2	29	0	0	0
Fort Vermilion	58	27	116	3						26·7	—	7	76·9	9	3·5	31	24·6																		0·15		0·09	3	28	13	0	8
Gleichen	50	59	112	51	2952					40·1	—	9	76·0	7-8	10·0	25	26·5																		0·65		0·45	2	29	0	0	0
Gilt Edge	52	59	110	43						47·5	—	3	75·0	12	13·6	22	26·1																		0·85	—	0·75	2	29	0	0	0
Hillsdown	52	14	113	29	2806					39·6	—	8	74·0	9	10·0	25	22·7					1	1	0	14	6	5	0	31	4	62				0·97	—	0·44	5	26	1	0	1
High River	50	35	113	53	3391					39·3	—	9	78·0	9	7·5	25	27·2																		0·78	—	0·41	4	27	0	0	0
Harmattan	51	45	114	23	3500					37·7	—	4	77·0	8, 10	4·0	25	30·7																		0·95	—	0·34	3	28	1	9	0
Halkirk (Emsburg)	52	17	112	10						39·5	—	5	70·0	7-9	9·0	31	19·9					4	5	0	6	11	12	3	21	0	62				0·61	—	0·35	4	27	2	0	1
Lethbridge	49	41	112	51	2961					41·6	....	10	83·0	10	13·3	25-27	25·2																		0·44	—	0·27	4	27	0	0	0
Lethbridge (Exp. Farm)	49	43	112	51						43.0	—	4	79·4	9	9·7	25	24·8																		0·57	—	0·21	5	26	0	0	0
Lacombe	52	58	113	44	2783					38·8	—	5	80·5	9	8·7	25	27·8																		0·62	—	0·25	5	26	0	0	0
Lawrence	50	16	113	26						37·7	—	5	78·0	7-8	2·0	25	31·3					5	0	0	10	0	0	1	1	11	31				0·39	—	0·20	3	28	0	0	0
Lunnford	54	33	114	19						36·9	—	2	78·0	9	5·0	27-28	29·4																		0·46		0·41	2	29	1	0	2
Loveland	52	30	111	59						40·2	—	2	77·0	7-9	4·0	31	25·8					3	3	2	7	8	12	12	15	0	62				0·63	—	0·26	3	28	0	0	0
Medicine Hat	50	1	110	37	2161	30·02	30·72	29·50	1·22	44·6	− 1·5	26	80·0	9	14·0	27	22·2				7	1	1	3	7	15	15	9	2	9	62				0·45	−0·07	0·14	7	24	1	0	0
Macleod	49	44	113	21	3128					43·8	....	22	78·0	9	11·0	25-27	23·0																		0·33	−0·15	0·11	4	27	0	0	0
Moose (Tyrol)	51	15	110	39																																						
Peace River Crossing	56	15	117	15						38·8	—	4	79·0	7	11·0	27	25·1																		—	—	—	—		1	0	0
Pembina	54	12	111	0																																						
Pakan (Victoria)	54	0	112	31						38·3	—	7	75·0	8-9	6·0	25	26·7					7	7	1	0	7	9	10	9	8	58				0·32	—	0·30	2	29	2	0	3
Pincher Creek	49	0	114	4	3750																																					
Red Deer	52	16	113	49						38·4	− 3·0	10	78·0	9	7·0	25	27·4					4	0	2	9	6	3	0	7	0	31				0·78	—	0·52	4	27	4	0	0
Spirit River	55	40	118	47																																						
Sundial	50	6	112	34						41·2	—	1	77·0	7	1·0	31	25·6																		2·75		1·60	2	29	0	0	0
Threehills Creek	51	30	115	11																																						
Wetaskiwin	52	58	113	23	2480					39·0	—	9	75·0	9	6·0	31	26·3																		0·25		0·25	1	29	0	0	0
Waitefield	53	29	111	38	2000					39·4	—	7	78·0	8	1·0	31	24·6					9	1	10	8	4	6	12	21	19	93				0·59	—	0·31	5	26	11	0	1
SASKATCHEWAN—																																										
Battleford	52	41	108	20	1620	30·02	30·70	29·56	1·14	42·2	+ 1·6	20	82·0	8	8·0	31	23·8		89			6	3	0	13	2	5	7	28	29	93				0·11	−0·33	0·11	1	30	0	0	1
Broadview	50	23	102	33	1960					41·1	—	7	79·0	11	7·0	31	26·2																		—	—	—	—		0	0	0
Brownlee	50	45	106	0																																						
Chaplin	50	26	106	39	2202					38·9	− 1·8	21	84·0	9	7·0	26	27·0					3	3	2	5	0	3	3	12	0	31				1·20	+0·87	1·03	5	26	3	0	0
Cannington Manor	49	23	102	2	2064																																					
Crescent Lake	50	59	102	25	1658					39·1	—	7	78·8	10	6·3	31	22·9																		0·97	—	0·71	6	25	1	0	0
Cumberland House	53	56	102	16						38·1	—	1	72·0	10	4·0	31	22·5																		0·60	—	0·30	2	29	0	0	1
Chalgoness	52	32	104	13						41·4	—	1	87·0	9	6.0	30	24·1																		0·55	—	0·40	2	29	0	0	2
Duck Lake	52	54	106	20																																						
Estevan	49	12	103	4	1858					39·9	− 2·0	10	75·0	9	0·0	31	19·5					2	3	1	0	3	3	6	4	9	31				1·49	—	1·27	2	29	2	0	4
East End	49	31	108	49																																						
Foxleigh	50	37	104	29																																						
File Hills	51	4	103	31																																						
Grenfell (Brownhill)	50	23	102	53	1957																																					
Glenbryan (Larchmount.)	49	54	107	27						39·8	—	1	79·0	10	7·9	27	27·5					2	9	2	2	0	8	14	25	0	62				1·19	—	1·00	2	29	1	0	0
Humboldt	52	12	109	5						42·8	—	3	82·0	11	26·0	30	19·0																		1·50	—	1·50	1	30	0	0	0

PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA, OCTOBER, 1911

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

STATION.	Latitude N.	Longitude W.	Elevation above sea level, in feet.	PRESSURE: Mean reduced.	PRESSURE: Highest.	PRESSURE: Lowest.	PRESSURE: Range.	TEMPERATURE: Mean.	TEMPERATURE: Difference from average.	TEMPERATURE: Years observed.	TEMPERATURE: Highest.	TEMPERATURE: Date.	TEMPERATURE: Lowest.	TEMPERATURE: Date.	TEMPERATURE: Mean daily range.	Mean temperature of dewpoint.	Mean relative humidity.	Mean amount of cloud.	No. of days completely clouded.	DIRECTION OF WIND FROM: N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.	Total number of observations.	VELOCITY OF WIND: Mean miles per hour.	Highest day's velocity.	Date and direction from.	PRECIPITATION: Amount.	Difference from average.	Heaviest fall in month.	Days with .01 or more.	No. of fair days.	No. of auroras.	No. of thunder storms.	No. of fogs.
SASKATCHEWAN—*Con.*				in.	in.	in.	in.																																		
Hubbard (Drinmagne)	51 5	103 21																																						
Indian Head	50 28	103 40	1921					38·6	+ 1·2	20	78·0	9	2·0	31	22·0					5	10	1	10	11	6	5	34	8	93	111	VI	3 NE	1·95	+ 1·12	1·62	5	26	0	0	0
Kamsack	51 30	101 52																																						
Kelvinhurst	49 21	109 29						40·0	—		77·0	10	10·0	29	25·8																			0·32	—	0·32	1	30	0	0	0
Lloydminster	53 18	110 0						38·2			79·4	9	5·0	21	25·0																			0·32		0·26	4	27	0	0	0
Luseland	52 5	109 21						38·2			81·0	9	3·0	31	28·5																			0·06		0·06	1	30	1	0	3
Lost River								39·6			84·0	10	4·0	30	24·1																			1·09		0·30	6	25	1	0	0
Moose Jaw	50 21	105 35	1759	30·05	30·85	29·63	1·22	40·2	0·0	16	84·0	9	9·0	31	24·6		85			10	8	6	1	2	14	10	22	20	93				1·51	+ 1·12	0·93	5	26	0	0	0
Moosomin	50 0	101 37	1881					39·5			75·0	8	7·0	31	18·6					0	0	8	4	6	4	1	8	0	31				2·57	—	2·00	2	25	0	0	0
Muenster (St. Peter's Monastery)	52 0	105 0	1870					39·9	—		78·0	9	6·0	31	19·4					0	5	0	2	0	4	1	19	0	31				0·35		0·35	1	30	1	0	1
Melfort	52 47	104 30						38·2			83·0	9	2·0	31	20·8																			1·10		0·50	2	22	1	0	6
Maple Creek (Divide)	49 55	109 28						38·3			75·4	10	10·8	25	21·3																			1·28	—	0·45	5	26	1	0	1
Onion Lake	53 52	109 59						40·0			77·0	9	0·0	30	31·7					6	5	5	3	1	0	1	10	0	31											
Oliver	51 46	108 10						38·2			82·0	8·9	1·0	27	28·6																								6	0	1
Pense (Gatesgarth)	50 20	105 0	1879					38·0			83·2	8	4·0	31	29·7					2	0	6	1	0	0	12	10	0	31				1·55	+ 1·16	1·38	4	25	0	0	0
Prince Albert	53 10	106 0	1432	30·01	30·79	29·59	1·20	40·0	+ 1·2	27	80·5	8	5·0	30	21·8		85			9	2	7	2	5	5	6	9	17	62				0·04	0·82	0·02	3	25	0	0	2
Prince (Meota)	54 0	108 20	1700					40·1	—		82·0	8	5·0	27	25·3																			0·06		0·04	2	29	0	0	0
Pilger	52 25	105 9						37·4			80·0	9	1·0	30	21·3																			0·21		0·12	3	25	0	0	0
Qu'Appelle	50 30	103 47	2115	30·01	30·70	29·06	1·04	39·1	— 1·9	27	79·0	9	7·0	31	19·2		87			3	4	4	7	8	8	10	18	0	62				2·30	+ 1·30	1·70	6	25	0	0	3
Quill Lake	52 4	104 14	1690					36·9	—		75·0	8	1·0	30	31·2																			0·70		0·62	2	28	0	0	0
Regina	50 27	104 37	1885					38·7	+ 0·1	25	79·0	9	5·0	31	22·6																			1·55	+ 0·89	1·03	6	25	0	0	0
Rathmullen	51 20	108 57						38·7			79·8	9	4·2	27	28·6																			0·03		0·03	1	30	0	0	0
Rosthern	52 40	106 20	1657					38·2			78·3	9	4·5	30	25·6																								0	0	4
Swift Current	50 20	107 45	2130	30·08	30·81	29·61	1·23	41·1	— 1·9	25	79·0	10	11·0	21	21·6		82			5	0	8	2	8	11	23	24	11	93				0·48	— 0·23	0·16	6	25	1	0	0
Saskatoon	52 15	106 30	1571					39·5	— 1·9	11	74·0	10	6·0	27	27·3																			0·10		0·10	0	31	0	0	0
Strassburg	51 5	104 56						39·2			78·0	9	1·0	31	21·8																			1·48		1·46	2	29	0	0	0
Scott (Ex. Farm)	51 50	109 30						38·9			80·5	8	4·7	31	26·3																			0·11		0·07	2	29	0	0	0
Stanley Mission	55 27	104 37																																						
The Pas	53 19	101 15	891	30·01	30·71	29·11	1·33	38·3			79·0	9	3·0	31	16·4		96			10	0	11	7	4	1	23	1	15	93				0·45		0·10	8	29	1	0	0
Waseca	53 6	109 29						39·3	—		76·0	9	4·0	31	23·8					1	0	3	2	0	3	16	6	0	31							2	0	0	0
Yorkton	51 11	102 29						39·5			79·0	10	5·0	31	23·0																			2·01		1·00	3	28	0	0	0
Varbo (Fairfield)	50 39	102 4						40·6	+		78·0	10	8·0	31	23·2					3	2	1	5	2	1	2	13	2	31				1·89		1·57	3	28	5	0	4
Yellow Grass	49 49	104 9						39·5			78·0	9	— 1·0	31	22·7																			2·12		2·10	3	28	0	0	0
MANITOBA—																																								
Almasippi	49 14	99 20						42·8	+ 2·0	9	78·0	8	8·0	27	19·1																			2·45		2·01	5	26	0	0	0
a Aweme (St. Alban's)	49 12	99 33	1180	28·79	29·14	28·13	1·01	41·8	+ 1·4	27	77·0	8	10·0	27	19·9																			3·82	+ 1·76	1·88	7	24	1	0	0
Brandon	49 51	99 57	1176					41·3	+ 1·3	21	76·5	9	7·0	27	19·6			5	4	1	23	1	5	0	9	17	14	20	93	4	11		1·60	+ 0·91	1·10	2	29	2	0	0
Berens River	52 18	97 23	710																																					
Birtle	50 25	101 1	1703																																					
Carberry	49 52	99 20	1258																															1·80		1·80	1	30	0	0	1
Carman	49 31	98 0	872					42·2			83·0	9	13·0	30	30·9																			1·14		0·18	6	25	0	0	0
Cypress River	49 33	99 3	1232					42·2	—		73·0	10	10·0	27	19·7																			2·34		1·15	7	24	0	0	0
Dauphin	51 8	100 2	957					42·1			79·0	10	9·5	30	20·0																			1·65		0·80	2	29	0	0	0
Hillview	49 55	100 33	1400					40·8	+ 1·8	26	77·0	9	12·0	27	18·5			1	1	7	12	15	3	6	18	2	28	2	93				2·56	+ 1·26	2·22	5	26	1	0	6
Minnedosa	50 15	99 50	1629	30·01	30·66	29·32	1·31	39·9	— 0·7	27	74·7	9	8·0	27	18·3			5	4	1	2	5	0	0	1	2	15	36	62				1·86	+ 0·81	1·63	6	25	1	0	3
Morden	49 11	98 6	978					42·6			79·0	9	10·0	27	22·0					10	1	0	10	3	10	7	5	12	62				1·69		1·39	5	26	0	0	2
Moose Horn Bay (Aitkensville)	51 15	99 33						40·7			74·1	9	7·0	30	16·9					16	2	4	3	9	1	9	4	8	56				2·31		1·42	11	29	5	0	3
Ninga	49 14	99 51	1649					42·5			79·4	9	7·0	31	21·9																			1·33		0·63	5	28	0	0	0
Oakbank	49 57	96 12	800					41·7	+ 1·5	16	68·0	12	12·0	30	15·0					6	0	1	1	9	2	5	7	0	31				1·33	0·10	0·96	6	25	0	0	0
Pipestone	49 34	100 58	1400					42·7			76·0	10	13·0	27	23·7																			2·23		2·13	2	29	0	0	2
Portage la Prairie	49 57	98 17	830					40·6			74·0	8	10·0	31	19·4																								0	0	2
Portage la Prairie (2)	49 56	98 17						42·4	0·0	4	75·0	9	15·0	27	19·5																			2·28	—	1·08	6	25	0	0	0

MANITOBA—*Concluded.*																																										
Pierson	49	11	101	5	1531					41·4	—	7	73·0	10	11·0	27-28	23·6																		1·98	—	1·40	3	28	0	0	0
Stony Mountain	50	40	97	14	803					41·2	+0·8	31	72·0	7	7·0	26	23·4					11	1	2	4	20	2	9	11	0	60				1·60	+0·76	1·35	3	28	0	0	1
Swan River	52	6	101	15	1112					40·6	—	4	85·0	9	3·0	31	22·8																		1·12	—	0·52	1	27	0	0	0
Treherne	49	36	98	40	1212					42·5	+0·7	16	75·0	8	13·0	27-31	17·2																		2·30	+1·12	1·89	9	22	2	0	4
Virden	49	51	100	35	1444					46·8	—	6	76·0	16	14·0	26	31·5																		—			—		0	0	0
Winnipeg	49	53	97	7	760	30·05	30·58	29·29	1·29	42·9	+1·4	37	73·0	8	13·3	31	16·7			4	4	9	1	3	2	17	10	7	10	3	62				1·84	−0·32	1·15	9	22	2	0	1
ONTARIO—																																										
Alton	43	51	80	5	1256					43·1	....	25	67·2	16·20	19·9	28	21·8			3	1	21	5	16	2	11	6	26	6	0	94	II	IV	4 W	4·30	+1·45	1·28	10	21	0	0	4
Aurora	43	57	79	21	886					45·6	—	1	68·4	10	25·0	28	20·1																		3·81	+1·20	1·39	9	22	0	0	0
Agincourt	43	47	79	16	590					48·2	−1·4	15	72·5	4	25·2	28	16·9					10	7	20	5	2	3	22	22	2	93				3·60	−0·70	1·41	8	23	0	0	5
Barrie	44	23	79	41	839					45·8	−1·6	33	66·0	4	28·5	28	14·1			6	4	8	7	10	11	1	10	5	18	20	93	II	IV	1 W	4·41	+1·69	1·21	18	13	0	0	4
Beatrice	45	8	79	20	800					44·4	+1·0	25	68·0	10	23·0	28	19·7			7	11	6	1	0	5	9	11	1	9	18	93				5·71	+2·30	1·56	10	21	1	1	6
Bruce Mines	46	18	83	55	595					45·2	+0·8	13	69·0	12	17·0	30	19·8																		3·44	+0·15	1·02	11	20	0	2	0
Birnam	43	2	81	55	600					47·2	−1·3	28	66·4	4	28·0	27	16·1					10	11	15	3	1	5	6	5	3	62				4·34	+1·45	0·85	8	23	1	1	1
Brantford	43	10	80	21	750					47·6	−0·3	30	70·0	4	26·0	27	19·9																		3·84	+1·34	1·10	7	21	0	0	3
Bloomfield	43	59	77	21	260					47·9	−3·5	11	70·0	5	25·0	28	17·3																		2·01	—	0·75	7	21	0	0	0
Bancroft	45	1	77	50						44·4	+1·0	20	71·0	10	17·0	31	22·7																		—	—	—	—		0	0	0
Copper Cliff	46	30	80	59						43·3	—	5	69·0	10	18·0	30	17·7																		3·70	—	1·05	10	21	0	0	0
Clinton	43	32	81	37						45·7	—	9	66·0	4	29·0	8	16·9					11	10	17	2	5	3	14	0	0	62				4·38	—	0·95	12	19	0	1	2
Coldwater	44	38	79	40	600					44·2	−1·2	24	73·0	2	20·0	29	27·6																		4·33	+1·21	1·31	7	24	0	0	0
Cottam	42	7	82	45	606					47·9	−2·9	23	70·0	15	20·0	27	22·8					22	3	10	4	12	2	8	1	0	62				3·61	+0·92	0·66	8	23	0	0	0
Chatham	42	23	82	12	595					50·0	−0·9	25	75·0	15	22·0	28	21·6																		3·84	+1·30	1·05	8	23	0	0	0
Collingwood	44	31	80	2						46·3	−3·2	17	70·0	10 20	25·0	28	19·3																		5·92	—	2·80	6	25	0	0	0
Cochrane	49	2	81	0	946										35·0	7-8	15·0																									
Elora	43	41	80	24	1271					45·9	+1·6	14	69·0	15	23·0	28	20·7																		3·56	+0·75	1·06	10	21	0	0	0
Gravenhurst	44	51	79	20						44·4	−0·7	41	66·0	10	25·0	14	19·4			5	4	13	3	11	14	11	6	5	12	18	93	V	V	4 W	5·51	+2·20	1·38	11	20	0	0	1
Guelph	43	33	80	16	1050					47·0	+0·7	25	67·0	15	26·0	28	16·4																		2·63	+0·41	0·91	7	24	0	0	2
aGrimsby	43	13	79	36						50·7	—	2	75·0	5	28·0	28	16·6																		3·55	—	1·60	9	22	0	0	0
Haileybury	47	29	79	39	687	30·07	30·36	29·30	1·06	42·6	+0·1	17	71·2	10	13·0	30	16·7					11	2	1	2	8	8	13	7	10	62	II	IV	4 W	3·54	—	1·34	10	21	5	0	0
Hamilton	43	16	79	51	303					49·9	....	36	72·0	4	35·0	7-8	15·0																		2·88	−0·19	1·23	4	27	0	0	0
Haliburton	45	1	79	8	1050					49·8	+5·3	23	69·0	9 10	20·0	28	21·0																		8·20	+5·59	2·00	7	21	1	1	0
Huntsville	45	19	79	8						45·5	—	5	73·0	9-10	25·0	30	20·3																		—	—	—		—	0	0	0
Kenora	49	48	94	32	1102					39·6	—	10	61·0	9	8·0	31	14·9																					—	—	0	0	0
Kakabeka Falls	48	29	89	26	912					38·9	—	3	74·0	9	8·4	31	22·6																		1·49	—	0·31	10	21	3	0	0
Kingston	44	13	76	29	285	30·10	30·46	29·74	0·72	48·8	−0·4	36	72·2	4	26·6	28	14·2					7	10	3	8	1	9	9	14	1	62				3·31	+0·61	1·06	14	17	1	0	7
Kinmount	44	45	78	38	920					42·9	−3·5	12	66·0	4-10	19·0	27	21·8																		5·22	—	1·71	8	23	0	0	0
Lucknow	43	56	81	30	908					45·1	−2·3	25	68·7	16	26·9	27	17·1																		5·20	+1·21	0·71	15	16	0	3	2
Lake Talon	46	15	78	48						43·0	—	17	66·5	10-16	15·0	30	18·4																		3·58	+0·83	0·76	13	18	1	0	5
London	42	59	81	13	808	30·06	30·40	29·61	0·79	47·6	−0·9	27	70·0	4	28·0	28	19·3			5	11	0	40	7	16	0	5	7	18	0	93				4·30	+1·35	1·00	9	22	0	0	0
Lakeside Home	43	10	79	24						50·1	—	6	72·0	4	32·0	28	12·5																					—	—	0	0	0
Lorne Park	43	32	79	37						50·3	—	3	78·0	9	25·0	26	20·9																		2·84	—	1·10	6	25	0	0	0
Lindsay	44	20	78	45	872					46·8	+2·1	32	70·6	4	26·5	27	18·1			5	5	7	8	5	3	9	6	9	13	33	93	II	IV	4 NW	5·68	+3·05	1·44	12	19	0	0	8
Lakefield	44	25	78	15	850																																					
*Midland	44	41	79	53	750					—	—	4	—	—	—	—																			5·40	+2·13	1·20	8	23	0	0	0
Madoc	44	30	77	29	575					46·7	—	7	72·0	4	23·0	28	18·1																		4·15	—	2·30	10	20	1	0	0
Montague	44	56	75	57						46·5	—	2	73·0	4	25·0	28	19·7																		2·61	+0·31	0·80	10	21	1	0	0
Montreal River	47	8	79	29						39·9	—	1	65·0	11	12·0	30	20·6																		3·39	—	1·39	8	23	0	0	0
Matheson	48	29	80	26						38·1	—	1	71·0	10	4·0	30	22·5					4	1	1	2	0	5	27	17	2	62				3·44	—	1·05	10	21	1	0	0
*North Bruce	44	23	81	25						45·4	−2·2	21	68·0	16	32·0	18-27	—																		5·38	+2·65	1·06	18	13	0	0	1
North Gower	45	8	75	43						50·8	—	9	75·0	6	20·0	27	26·1																		—	—	—		—	1	0	3
Owen Sound	44	34	80	55	597					—	—	33	—	—	—	—	—					21	0	1	0	37	2	0	1	0	62				—	—	—		—	0	0	0
Orillia	44	37	79	24	775					46·5	−0·1	17	68·0	12	28·0	29	18·7					3	0	0	1	10	9	1	7	0	31				5·29	+2·00	1·23	10	21	0	0	0
Ottawa	45	26	75	42	294	30·06	30·42	29·14	0·98	46·8	+0·2	28	70·0	4	24·0	28	17·0					1	5	12	4	3	8	18	8	0	62				2·21	−0·04	0·94	10	21	1	0	0
Port Arthur	48	27	89	12	644	30·04	30·37	29·30	1·07	41·3	−0·3	31	72·0	8	13·0	31	15·6			6	5	13	3	9	1	3	1	17	10	5	62				1·65	−0·88	0·60	7	24	1	0	2
Port Stanley	42	40	81	13	592	30·09	30·43	29·66	0·77	48·2	−0·6	36	65·1	4	28·4	27	16·2			6	7	0	12	11	3	1	12	10	6	7	62				1·23	+1·45	1·32	15	16	0	0	6
Port Dover	42	47	80	12	635					47·9	−0·5	35	70·5	4	25·0	28	16·3					4	4	5	3	4	2	8	1	0	31				1·41	+1·93	0·92	15	16	0	0	0
Port Burwell	42	39	80	55	592					49·2	—	8	67·5	4	28·0	28	15·3																		3·33	—	0·98	8	23	0	0	0
Parry Sound	45	19	80	0	635	30·08	30·36	29·41	0·92	45·6	−0·2	35	66·0	10	25·0	30	15·5					4	17	1	9	1	14	3	10	3	62				5·37	+1·63	0·94	18	13	1	2	1
Point Clark	44	5	81	44	595					—	—	41	—	—	—	—	—					15	4	10	7	6	10	8	2	0	62				3·23	+1·05	1·75	5	26	0	2	0
Pelee Island	41	50	82	35	585					54·8	+0·8	31	77·0	16	28·5	26	13·2																		4·33	+2·40	1·26	7	24	0	0	0
Paris	43	12	80	25	840					48·2	−0·5	21	69·0	4	28·0	27	18·7																		4·07	1·07	1·22	10	21	0	1	0
Peterboro	44	17	78	19	722					47·5	+0·5	41	70·0	4	25·0	28	21·3																		1·08	−1·27	1·10	13	18	0	0	1
Porcupine	48	29	81	18																																						
Providence Bay	45	40	82	14						44·6	—	1	66·0	5	22·0	30	19·0																		6·02	—	1·63	8	23	0	1	1
Ronville	45	15	78	57	1038					44·0	—	4	62·0	19	17·0	31	17·7																		3·80	—	1·63	10	21	1	0	0
Renfrew	45	26	76	39	416					45·9	+2·0	22	73·0	10	23·9	31	21·6																		1·85	−0·18	0·72	9	22	1	0	7
Stonecliffe (Rockliffe)	46	9	78	6	557	30·05	30·34	29·38	0·96	43·3	+0·2	34	70·0	10	15·0	30	22·6					3	0	4	0	1	0	14	1	39	62				3·01	−0·61	0·99	8	23	1	0	8
Southampton	44	30	81	21	656	30·10	30·42	29·53	0·89	17·0	−1·0	35	69·2	16	32·1	18-30	14·4			7	10	10	9	7	9	21	1	1	0	1	62				5·18	+2·31	1·27	15	16	0	2	1
*Sarnia	42	59	82	24	586																																					

PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA, OCTOBER, 1911.

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

STATION.	Latitude N.	Longitude W.	Elevation above sea level, in feet.	Pressure: Mean reduced.	Pressure: Highest.	Pressure: Lowest.	Pressure: Range.	Temperature: Mean.	Temperature: Difference from average.	Temperature: Years observ'n.	Temperature: Highest.	Temperature: Date.	Temperature: Lowest.	Temperature: Date.	Temperature: Mean daily range.	Mean temperature of dewpoint.	Mean relative humidity.	Mean amount of cloud.	No. of days completely clouded.	Wind from: N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.	Total number of observations.	Velocity of wind: Mean miles per hour.	Highest day's velocity.	Date and direction from.	Precipitation: Amount.	Difference from average.	Heaviest fall in month.	Days with ·01 or more.	No. of fair days.	No. of auroras.	No. of thunder storms.	No. of fogs.
ONTARIO—*Concluded.*																																								
Stratford	43 23	81 0	1191					46·6	−0·7	37	74·0	1	26·0	28	17·4																		3·78	0·27	0·74	10	21	0	0	0
Stony Creek	43 13	79 45	292					49·0	1·0	27	74·0	4	27·0	28	16·3			4	7	2	19	16	8	1	17	22	8	0	93	11	18	6 S.E.	3·54	0·76	0·88	7	21	0	0	3
Schreiber	48 50	87 15						39·6		8	66·0	4	13·2	30	16·6																		4·58		2·00	10	21	1	0	2
Shelburne	44 5	80 17						41·7	—	3	64·0	4, 12	21·0	28	18·5																		4·74		0·91	10	21	0	0	0
Scarboro' Junction	43 44	79 13						47·5	—	2	72·0	4	25·0	28	17·4																		4·12		1·06	10	21	0	0	0
Toronto	43 40	79 24	350	30·09	30·42	29·54	0·88	49·5	+1·2	70	74·6	4	27·4	28	16·4					12	12	7	3	2	3	12	6	5	62				3·57	+0·87	1·44	12	19	0	0	4
Uxbridge	44 5	79 8	886					50·0	—	7	65·0	10	27·0	28	18·3																		4·41		1·70	9	22	0	0	0
Uplands	45 48	79 25						43·5	−0·2	26	70·0	10	44·0	31	23·2					7	0	8	0	11	0	22	0	14	62				4·14	+0·84	0·80	10	21	0	0	0
Ursa	44 54	78 48																																						
White River	48 35	85 16	1252	30·01	30·29	29·23	1·06	36·9	+1·2	22	70·0	9, 10	4·0	31	21·6					4	1	2	1	4	1	14	1	31	62				1·94	−0·56	0·80	7	24	0	0	4
Woodstock	43 8	80 47	980	30·06	30·37	29·61	0·76	46·8	−0·3	37	63·0	4	26·2	28	17·9		78	6	8	6	20	3	15	4	12	13	19	1	93	8·4	20	4 N.W.	3·70	+0·71	1·15	10	21	0	0	0
Welland	42 59	79 17	577					49·0	−1·0	26	70·0	4	25·0	28	15·9																		3·43	−1·02	0·76	11	20	0	0	0
Windsor	42 20	83 4	625					49·9	+4·4	38	69·0	5, 17	29·0	28	13·7																		4·48	+2·07	1·00	11	21	0	0	0
Wallaceburg	42 35	82 24						48·4		6	69·0	15, 16	21·0	27, 28	19·2																		3·07		1·08	10	21	0	0	0
QUEBEC—																																								
Abitibi	48 33	79 22						39·6	0·8	16	61·0	9	14·0	30	12·6			6	6	13	4	7	1	21	8	29	7	0	90	11	41	28 S.W.	[illegible]	0·75	1·17	9	22	0	0	0
*Anticosti, E. Point	49 6	61 42	30																																					
*Anticosti, W. Point	49 52	64 32	30					39·0	0·7	30	48·0	22, 23	27·0	17, 28						18	13	2	1	22	1	40	23	0	93				2·97	1·10	1·06	[illegible]	22	0	0	4
Brome	45 10	72 36	678					44·1	−0·2	31	68·0	20	17·0	28	19·3					7	0	3	1	26	3	50	3	0	93				1·42	−1·09	[illegible]	[illegible]	26	0	1	0
*Bicquet	48 25	68 53						38·7		30	48·0	21	27·0	30						13	21	0	0	7	3	31	13	2	93				[illegible]	1·9[illegible]	[illegible]	8	23	0	[illegible]	4
Clarke City	50 10	66 25																																						
*Cape Chatte	49 6	66 45						38·7	−3·1	29	57·0	23	26·0	30						9	2	10	0	4	7	33	10	21	93				[illegible]	1·71	0·3[illegible]	4	27	0	4	[illegible]
*Cape Magdalen	49 16	65 20	93					40·3	−0·4	29	65·0	23	28·0	31						2	4	2	2	16	5	11	44	13	93				1·6[illegible]	1·[illegible]	[illegible]	8	23	0	0	1
Chicoutimi	48 25	71 5	150					42·4	+1·8	33	68·8	11	18·3	31	16·5			7	8	0	8	0	25	0	46	1	13	0	93	11	41	17 S.E.	[illegible]	−1·02	[illegible]	4	18	3	[illegible]	[illegible]
Chicoutimi (2)								41·6	—	1	69·0	10	18·0	31	15·9																						4	0		0
Cap Rouge	46 46	71 18						43·2	—	1	65·0	11	23·2	28, 31	17·3																		2·70		1·06	10	21	0	1	[illegible]
Disraeli	45 55	71 21						41·6		1	69·5	18	20·0	28	22·5																		2·14		0·75	7	24	0	0	0
Father Point	48 31	68 19	20	30·01	30·44	29·41	1·03	41·3	+1·3	31	62·7	23	22·0	31	14·3			7	7	5	4	4	0	8	13	10	15	3	62				2·19	[illegible]	0·61	13	18	0	[illegible]	1
Lake Edward	47 39	72 15	1333					39·5		2	68·8	12	12·8	30	18·5																		4·61		[illegible]	9	22	0	0	3
La Tuque	47 27	72 48	530					41·6		1	72·0	12	21·0	30	21·8																		1·06		0·33	6	25	0	0	0
Montreal	45 30	73 35	187	30·07	30·48	29·30	1·18	48·2	+2·1	37	66·0	4	26·8	28	12·9			5	5	3	4	8	6	9	5	16	11	0	62				2·27	+0·71	1·07	9	22	1	0	5
Perkin's Mills	45 38	75 38																																						
Quebec	46 48	71 13	296	30·05	30·48	29·29	1·19	43·9	+0·9	37	65·0	11	22·6	28, 30	14·6			7	11	0	15	3	0	2	16	17	9	0	62				2·82	0·27	0·70	13	18	2	0	1
*Roberval	48 31	72 43	352																																					
St. Anne de Bellevue	45 27	73 59						47·8	—	5	71·8	4	24·0	28	15·5																		1·6[illegible]		0·65	7	21	0	0	0
Shawinigan Falls	46 34	72 43						40·6		10	67·0	11	18·0	30	19·3																		2·30	[illegible]	0·65	10	21	0	0	0
Sherbrooke	45 32	72 5	620					44·4		9	66·7	23	23·3	28	18·1																		[illegible]		0·2[illegible]	13	18	0	0	0
NEW BRUNSWICK—																																								
Chatham	47 3	65 29	21	30·05	30·54	29·36	1·18	43·5	4·8	37	65·5	22	22·5	31	19·5			5	3	1	2	6	1	4	10	21	15	2	62				0·58	−3·11	0·18	8	23	0	0	1
Dalhousie	48 4	66 22	39					42·4	+4·3	30	65·0	10	24·0	29	14·5					0	0	9	0	0	2	17	2	1	31				4·65		0·70	4	27	0	0	0
Fredericton	45 57	66 36	164	30·08	30·58	29·42	1·16	42·7	−2·0	38	71·0	11	23·0	15	22·3		77	5	5	2	3	4	14	3	14	17	30	6	93	7·8	18	7 S.W.	0·85	−3·95	0·35	4	27	1	1	4
Grand Manan	44 47	66 46	49	30·09	30·56	29·49	1·07	47·9	+0·2	27	68·6	11	32·0	28	12·1			5	3	5	7	7	3	3	10	9	14	4	62				0·92	−3·67	0·24	7	24	1	0	6
Moncton	46 9	64 45	50					42·6	−2·3	14	66·0	21	18·0	28	21·3					2	0	1	2	2	0	3	20	1	31				0·65	−4·62	0·35	4	27	0	0	0
*Point Lepreaux	45 4	66 28	30					43·3	−1·0	33	55·0	9, 10	30·0	28	—			5	6	12	7	11	5	3	13	6	21	0	78	11	[illegible]	4 N.W.	1·62	−2·90	0·60	3	28	0	0	3
St. John	45 17	66 4	70	30·07	30·56	29·46	1·10	46·6	−0·8	38	65·5	11	27·5	28	12·9			5	5	6	5	5	5	5	11	6	15	4	62				1·08	−3·07	0·52	10	21	1	0	4
St. Stephen	45 11	67 16	35					44·8	−2·2	14	73·0	11	17·0	30	25·4																		0·90	−3·41	0·50	5	26	1	0	0
Sussex	45 38	65 38	69					41·5	1·2	14	67·0	11	20·5	7	21·8					0	0	0	0	1	4	1	4	21	31				1·21	−2·77	1·13	2	29	0	0	0

Nova Scotia—																																											
Antigonish	45	38	61	59	50	...	...	...	...	45·0	—	1	74·0	24	21·0	29	21·9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	—	—	—	—		0	0	0
Halifax	44	39	63	36	88	30·06	30·51	29·84	0·67	46·5	− 2·3	37	68·2	11	26·5	29	16·1	...	...	...	...	...	10	12	2	6	3	6	11	9	3	62	...	...	...	2·03	− 3·54	0·43	8	23	1	0	0
Port Hastings	45	39	61	22	45	...	...	...	...	—	—	20	—	—	—	—	—	...	...	...	...	...	0	2	0	3	0	14	0	12	0	31	...	...	...	1·20	− 3·38	0·95	2	29	0	0	0
Parrshoro'	45	23	64	19	40	...	...	...	...	41·9	...	15	69·0	24	21·0	28	17·8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	—	—	—	—		0	0	0
Sydney	46	10	60	10	35	30·05	30·50	29·23	1·27	45·5	− 2·0	38	70·0	23	26·4	18	16·9	...	...	...	7	10	2	4	3	3	1	16	10	17	6	62	...	...	...	2·24	2·71	0·90	8	23	0	0	0
*Sable Island, E. Point	43	58	59	16	25	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Truro	45	22	63	18	77	...	...	...	...	44·9	− 1·3	37	72·0	23	16·2	29	24·2	...	...	...	6	1	2	6	3	7	6	23	4	11	10	72	...	...	...	0·72	3·86	0·25	6	25	0	0	4
Windsor	44	59	64	6	90	...	...	...	...	45·7	—	9	69·0	24	25·0	29	17·9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·59	—	0·56	6	25	0	0	0
*Whitehead	45	15	61	8	20	...	...	...	...	47·6	− 1·8	28	61·0	11	35·0	11	—	...	...	...	...	...	1	3	14	4	9	23	12	24	0	93	...	...	...	2·70	1·52	1·35	4	27	0	0	5
*a*Wolfvillo	45	7	64	20	...	30·01	30·45	29·37	1·08	46·0	− 1·7	11	73·2	23	26·5	8	19·4	...	...	...	...	...	3	5	4	6	3	5	14	11	11	62	...	...	...	0·27	− 3·71	0·11	6	25	1	0	1
Yarmouth	43	50	66	2	65	30·10	30·55	29·55	1·00	47·9	+ 0·4	31	61·3	16	28·3	8	14·2	...	...	...	...	...	10	7	11	5	3	7	7	8	4	62	...	...	...	1·62	− 3·05	0·73	9	22	0	0	2
P. E. Island—																																											
Charlottetown	46	14	63	10	38	30·05	30·49	29·38	1·11	45·0	− 2·1	36	66·0	23	28·0	31	13·8	...	...	...	...	...	2	6	0	9	6	17	5	14	3	62	...	...	...	1·03	3·61	0·30	8	23	0	0	1
Charlottetown (2)	46	14	63	7	75	...	...	...	...	44·5	—	2	64·0	23	27·0	29	15·2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·38		0·31	9	22	0	0	0
Hamilton	46	25	63	48	...	...	...	...	...	45·7	− 1·3	14	64·0	21	32·0	13	14·7	...	...	...	...	...	1	0	0	0	3	15	10	2	0	31	...	...	...	0·41	3·13	0·28	2	29	0	0	0
Newfoundland—																																											
*Amour Point	51	28	56	51	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Burin	47	0	55	10	27	30·01	30·45	28·93	1·52	42·7	—	3	58·0	6 11	26·0	3.	18·6	...	...	...	...	...	0	6	3	1	4	13	16	15	4	62	...	...	...	5·87	—	1·52	12	19	0	0	2
*Cape Norman	51	38	55	52	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Fogo	49	43	51	17	30	29·90	30.39	28·82	1.57	41·8	—	2	58·0	24	28·0	31	9·5	...	...	...	...	...	6	4		1	5	9	16	12	2	62	...	...	...	3·21	—	1·06	15	16	0	0	0
*Point Rich	50	42	57	25	35	...	...	...	...	40·3	...	27	52·0	23	30·0	28	—	...	...	...	...	...	4	16	4	0	5	3	38	23	0	93	...	...	...	3·06	− 0·15	1·42	9	22	0	0	3
Port aux Basque	47	35	59	10	27	29·98	30·45	29·12	1·33	40·[illegible]	—	3	55·0	16	28·5	31	10·8	...	...	...	...	...	3	8	8	2	4	7	13	15	2	62	...	...	...	2·59		0·69	15	16	0	0	3
St. John's	47	34	52	42	125	29·90	30·39	28·80	1·59	43·7	− 1·7	38	65·0	23	25·0	18	15·6	...	...	...	6	5	8	2	0	4	16	13	15	3	1	62	...			7·31	+ 1·10	1·78	13	18	0	0	0
Bermuda—																																											
Prospect	32	17	64	46	151	30·07	30·25	29·73	0·52	73·7	+ 0·3	21	81·6	20	63·8	19	10·7	...	...	...	...	...	8	19	13	4	9	5	1	3	0	62				1·40	6·51	0·78	9	22	0	2	0

PRECIPITATION AT STATIONS REPORTING RAIN, SNOW, WEATHER, &c., DURING OCTOBER, 1911.

STATIONS	RAINFALL. Amount in inches	No. of Days .01 or over	No. of Fair Days	Heaviest Fall in Month	Date	SNOWFALL. Amount in inches	No. of Days	Heaviest Fall in Month	Date	REMARKS
BRITISH COLUMBIA—										
Alkali Lake	0.60	3	28	0.20	6					
Atlin	0.31	2	29	0.17	11					
Beaver Lake	0.77	3	28	0.42	13					
Coquitlam	1.88	8	23	0.40	9					
Denman Island	3.41	7	21	1.46	6					
Ferguson	0.62	2	29	0.32	13					
Goldstream Lake	1.13	10	21	0.29	11					
Hydraulic	0.60	1	27	0.39	11					
Hornby Island	2.90	8	23	0.30	6					
Jordan River	1.86	10	21	0.96	11					
Jordan River (Bear Creek)	3.62	7	24	1.46	13					
Little Qualicum and French Creek, V.I.	3.02	5	26	1.20	9					
Monte Creek	0.03	1	30	0.03	3					
Nass Harbour				......	..					
Skidegate										
Shawnigan Lake	1.51	11	20	0.75	11					
ALBERTA—										
Bardo	0.53	1	29	0.53	3	0.5	1 1	. 0.5	18 31	
Bismark	0.62	2	28	0.11	2					
Bruederheim	0.65	3	28	0.55	2					
Bittern Lake	0.31	3	28	0.28	2					
Brooks	0.47	5	25	0.13	2 11	0.5	1	0.5	24	
Conjuring Creek	....									
Coutts	...			...						
Campsie	0.35	3	28	0.18	2					
Caldwell	0.51	3	25	0.11	2	5.3	3	4.5	24	
Dorenlee	0.10	2	29	0.30	3					
Dunstable	0.32	1	26	0.25	2	0.1	1	0.1	31	
Grassy Lake	0.10	1	29	0.10	22	1.0	1	1.0	23	
Jumping Pound	....		....			....	...			
Lacombe	...									
Loch Sloy	0.34	1	27	0.31	2	2.8	3	2.0	21	
Lyndon	0.26	1	27	0.26	2	3.5	3	2.0	23	
Lineham	....			...						
Macleod	0.21	1	28	0.21	2	3.5	2	3.0	23	
Minda (Many Berries R.)	..					3.0	1	3.0	21	
Maycroft	0.15	2	28	0.14	2					
Okotoks	R	1	29	R	18	1.0	1	1.0	23	
Pekisko	0.60	1	27	0.60	2	3.8	3	3.0	23	
Ponoka	0.11	1	30	0.11	3					
Priddis	....									
Playle Creek	.									
Sion	0.24	5	26	0.13	2	2.0	1	2.0	22	
Seven Persons	0.30	1	29	0.30	18					
Tilley		....		....						
SASKATCHEWAN—										
Carmichael	....	....		....						
Coulee	....	....		.....	..					
Elm How	..									
Forks Swift Current (Gull Lake)	0.87	5	26	0.51	2					
Gull Lake	1.15	1	27	0.65	1	...				
Gravelbourg	1.20	1	30	1.20	3	.....				
Hanley	....	......				..				
Kindersley	...					.	1	.	31	
Last Mountain	0.71	1	29	0.71	2					
Maple Creek	0.72	6	25	0.11	3					
Meadow Lake	1.50	4	27	0.58	11	1.0	1	1.0	21	
Willow Creek	0.38	1	29	0.38	3					
MANITOBA—										
Cartwright	2.06	5	26	1.58	3	0.2	1	0.2	23	
Deloraine	2.61	5	25	1.92	2					
Gretna	...					.	1	.	20	
Norquay	2.21	6	21	1.11	3	0.1	1	0.1	19	
Rapid City	3.05	3	27	3.00	3					
Rosebank	.....	......		....						
ONTARIO—										
Deer Park	2.90	7	23	1.37	18	1.5	1	1.5	31	
Dutton	3.90	9	22	1.00	3	. .	2 2	. .	23-26 27 30	
Emsdale	5.37	13	16	1.27	18	1.1	1	1.1	27	
Georgetown	1.43	10	20	1.17	11					
Grantham	3.11	11	20	0.89	18					
Grand Valley	4.17	11	20	1.08	18	.....				
MacCue	2.61	8	23	0.81	1	..				
Orangeville	5.09	9	22	1.73	7	0.5	1	0.5	27	
Princeton	4.52	6	24	1.33	6					
Sydenham	3.87	6	25	1.25	4		1	.	27	
Strathroy	3.72	7	23	0.86	6					
Watford	4.11	7	21	1.03	6	1.5	1	1.5	30	
Westport	3.21	5	25	1.12	5					
Wooler	4.79	7	21	2.37	18					
Westminster	4.69	6	25	1.43	17	1.0	1	1.0	27	
Wesley	4.27	11	19	0.91	7					
QUEBEC—										
Kepawa	...	......			....	0.1	1	0.1	31	
Lucerne	0.19	2	28	0.12	17	.	2	.	27 31	
Perkins Mills	2.87	7	22	1.27	17		3			
Quinze Dam	3.38	8	23	1.25	22					
Timiskaming	3.22	10	21	1.11	22					
NEW BRUNSWICK—										
Point Escuminac	0.90	3	28	0.61	12					
NOVA SCOTIA—										
Kentville	0.61	1	26	0.46	27	1.5	1	1.5	28	
Kedgemakooge Lake (New Grafton)	0.88	3	28	0.36	23	.		....		
Liverpool	1.46	6	25	0.52	31					
Milton (Rapid Falls Mill)	1.45	3	28	0.55	21	2.0	1	2.0	28	
South Alton	0.58	1	26	0.40	28			....	....	
White Rock	1.28	6	25	0.47	27					

MEAN PROPORTION OF BRIGHT SUNSHINE REGISTERED IN EACH HOUR OF THE DAY IN THE MONTH OF OCTOBER, 1911.

STATIONS.	Hours Ending														
	4 a.m.	5 a.m.	6 a.m.	7 a.m.	8 a.m.	9 a.m.	10 a.m.	11 a.m.	Noon.	1 p.m.	2 p.m.	3 p.m.	4 p.m.	5 p.m.	6 p.m.
Victoria				·02	12	·31	·43	·51	·56	·55	·50	46	·53	·36	·01
Salmon Arm				·04	·11	·35	·56	69	·72	·79	·79	·72	·42	·10	
Nanaimo					·01	·12	·29	·43	42	·45	·46	43	·39	·44	
Vancouver					·09	·35	·51	·59	·55	·52	·53	·51	·52	·33	·02
Agassiz					·02	·39	·48	·58	·66	·74	·65	·59	·52	·11	
Dunvegen					·07	·34	·41	·47	·53	·62	·62	·70	·60	·28	
Summerland				·03	·61	·76	·78	78	·79	·77	·76	·69	·65	·21	
Kamloops					·28	·70	·71	·78	·87	·88	·85	·79	·62	·16	
Edmonton				·01	·24	·41	·55	·57	·61	·57	·58	·60	·60	·10	·01
Lethbridge				·02	·47	·64	·66	·72	·70	·67	·59	·58	·54	·10	·05
Lacombe				·01	·27	·52	·60	·67	·67	·69	·68	63	·54	·41	·02
Medicine Hat					·12	·52	·67	·78	·72	·66	·66	63	·54	·20	
Fort Vermilion															
Dunvegan															
Battleford				·06	·27	·40	·48	·55	·58	·62	·65	·62	·57	·15	
Indian Head					·13	·48	·48	·50	·56	·57	·52	·51	·46	·13	
Scott				·01	·30	·52	·62	·63	·66	·67	·74	·72	·58	·36	
Rosthern				·02	·33	·53	·60	·60	·63	·63	·65	·59	·54	·37	
Moosejaw				·0[illegible]	·35	·51	·53	·55	·53	·56	·55	·56	·57	·30	
Brandon				·03	·28	·50	·53	·53	·48	·46	·40	·40	·36	·11	
Winnipeg				·02	·22	·42	·47	·49	·49	·53	·48	·42	·36	·25	·07
Haileybury				·03	·30	·41	·40	·44	·52	·53	·47	·50	·47	·34	·07
Woodstock					·11	·49	·58	·60	·62	·61	·58	·53	·48	·30	·02
Lindsay					·01	·33	·55	·57	·58	·57	·61	·62	·47	·34	·10
Barrie				·02	·33	·43	·52	·52	·53	·49	·48	·46	·45	·24	
Toronto					·30	·56	·60	66	·68	·68	·64	·60	·50	·27	T
Kingston					·15	·32	·35	·47	·49	·57	·58	·58	·53	·24	
Ottawa				·03	·28	·46	·46	·59	·55	·53	·51	·53	·54	·37	·06
Montreal				·06	·32	·46	·51	·51	·50	·51	·50	·50	·51	·33	
Quebec				·03	·30	·43	·48	46	·47	·48	·47	·44	·37	·28	·02
Sherbrooke				·06	·38	·48	·47	·50	·50	·51	·49	·42	·34	·22	·02
Cap Rouge				·10	·39	·46	·41	·44	·43	·40	·37	·37	·31	·22	·01
Fredericton				·02	·37	·54	·55	·67	·69	67	·70	·63	·59	·44	·19
Charlottetown					·20	·41	·44	·49	·56	·61	·58	·59	·46	·31	

—	Victoria.	Salmon Arm.	Nanaimo.	Vancouver.	Agassiz.	Dunvegen	Summerland.	Kamloops.	Edmonton.	Lethbridge.	Lacombe.	Medicine Hat.	Ft. Vermilion.	Battleford.	Indian Head.	Moosejaw
Registered duration in hours.	137	164	98	140	147	142	213	206	159	187	177	170	141	153	135	156
Percentage of possible duration %	44	50	29	42	44	44	63	61	48	56	53	51	44	46	40	46
Difference from average %	+6	..	..	..	+9	..	..	..	..	..	..	..	..	−2	+2	..
Maximum percentage in one day %	90	89	80	93	86	83	92	84	92	96	88	84	81	90	85	92
Date of maximum	7	7	16	25	26	16	31	7	10	30	16	15	8	16	27	13
No. of days completely clouded	4	2	11	6	6	4	2	1	6	3	3	4	2	3	6	5

—	Scott	Rosthern.	Brandon.	Winnipeg.	Haileybury.	Woodstock.	Lindsay.	Barrie.	Toronto.	Kingston.	Ottawa	Montreal.	Quebec.	Sherbrooke.	Cap Rouge.	Fredericton.	Charlottet'wn.
Registered duration in hours.	180	170	126	131	139	153	147	137	170	133	152	145	131	136	121	185	145
Percentage of possible duration %	54	51	37	39	44	45	43	40	50	40	45	46	39	40	35	51	43
Difference from average %	..	..	−2	−1	..	+6	+3	+6	+6	+0	+10	+5	..	..	..	+10	..
Maximum percentage in one day %	95	99	97	96	92	90	85	87	90	83	94	98	90	98	94	96	87
Date of maximum	16	26	26	9	10	28	18	7	13	7	13	14	3	10	14	28	25
No. of days completely clouded	2	3	3	9	5	6	5	6	6	10	6	3	7	5	7	7	4

Aurora recorded:—

Where the class of aurora is noted by the observer, it is given, (I), being the brightest, (IV) the feeblest in brilliancy.

2. Fort Vermilion III.
3. Fort Vermilion II.
4. Fort Vermilion II.
5. Sion, Oliver, Fort Vermilion IV.
6. Waitefield II, Oliver, Fort Vermilion III.
7. Pakan III, Waitefield II, Oliver.
8. Sion, Brandon, Aitkensville IV, Schreiber, Winnipeg III, Oliver, Fort Vermilion II.
9. Sion, Renfrew, Esterhazy III, Oliver, Melfort II.
10. Chaplin IV, Luseland, Muenster I (very brilliant), Peace River Crossing II, Sion II, Cartwright III, Emsdale II, Hillsdown III, Halkirk, Pakan IV, Waitefield I, Brandon (brilliant), Hillview I, Treherne, III, Oakbank, Kakabeka Falls III, Haliburton (very bright), Chicoutimi, Fredericton I, St. Stephen, Haileybury I, Winnipeg II, Kingston, III, Stonecliffe I, Aitkensville, IV, Carberry, Aweme I, Beatrice IV, Schreiber, Ronville, North Gower, Matheson III, Montague Madoc, II, Lake Talon, Parry Sound III, Montreal I, Quebec, IV, Grand Manan IV, St. John III, Halifax III, Campsie I, Lumnford II, Waseca, Glenbryan, Oliver, Estevan III, Fort Vermilion I, Maple Creek, Crescent Lake II.
11. Sion, Loch Sloy, Harmattan II, Schreiber, Chicoutimi, Minnedosa I, Port Arthur I, Ottawa II, Esterhazy IV, Delia.
12. Sion, Esterhazy III.
13. Haileybury IV.
14. Sion, Chicoutimi, Chaplin IV.
15. Sion, Chaplin IV.
16. Sion, Red Deer I, Waitefield II, Birnam III, Fort Vermilion III, Delia.
17. Sion, Red Deer I, Treherne III, Aitkensville II, Kakabeka Falls IV, Esterhazy IV, Estevan IV.
18. Sion, Red Deer, Kakabeka Falls, Haileybury II, Esterhazy IV, Fort Vermilion IV, Crescent Lake.
19. Sion, Waitefield III, Haileybury IV, Fort Vermilion III.
20. Sion, Red Deer I.
21. Sion III, Halkirk, Waitefield III, Schreiber IV, Fort Vermilion II.
22. Waitefield IV, Fort Vermilion III.
23. Crescent Lake III.
24. Sion, Waitefield IV, Aitkensville IV, Haileybury IV, Quebec IV.
25. Sion, Aitkensville IV.
26. Sion, Waitefield III, Waseca, Fort Vermilion III.
27. Sion, Waitefield III.
28. Sion IV, Waitefield IV.
29. Sion IV.
30. Sion IV.
31. Sion, Waitefield III.

Thunder recorded:

2. Last Mountain.
3. Emsdale, Dutton, Beatrice, Providence Bay, Paris, Lucknow, Point Clark.
4. Haliburton, Birnam, Fredericton, Southampton, Parry Sound.
13. Golden, Wilmer.
15. Cottam.
16. Cottam.
17. Bruce Mines.
18. Cottam.
21. Point Clark.
22. Lucknow, Southampton, Parry Sound.
23. Clinton, Brome
25. Chicoutimi.

FORECASTS FOR OCTOBER, 1911.

The forecasts issued by this office at 11 p.m. each night are posted up at every telegraph station in Canada, and are for the 24 hours beginning at 8 a.m. the following day.

The number of these predictions issued during the month was 1243. These were divided as follows :—

District.	No. Issued.	Verified.			
		No. Fully	No. Partly	No. Not	Per-centage.
Alberta	79	65	11	3	89·2
Saskatchewan	81	63	16	2	87·7
Manitoba	81	66	12	3	88·9
Lake Superior	115	81	24	10	84·9
Lower Lake Region	119	95	18	6	87·4
Georgian Bay	118	86	27	5	84·3
Ottawa Valley	95	79	14	2	90·5
Upper St. Lawrence	95	83	9	3	92·1
Lower St. Lawrence	113	91	15	7	87·2
Gulf	117	88	23	6	85·0
Maritime Provinces West	115	78	20	17	76·5
Maritime Provinces East	115	80	22	13	79·1
Total	1243	955	211	77	85·3

In order to obtain the percentage of verification of the predictions, the number partly verified is divided by two and added to the number fully verified, and the result divided by the total number issued.

In ascertaining to what extent the predictions have been verified, the reports from the agents at all observing stations, as well as the telegraphic reports, are used.

R. F. STUPART, Director.

Meteorological Office, Toronto,
November 27, 1911.

DEPARTMENT OF MARINE AND FISHERIES, CANADA.
METEOROLOGICAL SERVICE.

Monthly Weather Review

VOL. XXXV. NOVEMBER, 1911 No. 11.

INTRODUCTION.

In compiling the present Review the principal data made use of are the telegraphic reports of observations received at this office for the purpose of weather forecasting, and reports by mail from voluntary observers and storm-signal agents. For the data used in tracing the paths of areas of high and low pressure in the United States, we are indebted to the Chief of the Weather Bureau, Washington, D.C.

TEMPERATURE.

BRITISH COLUMBIA.

In the far northern districts of the province, the Cariboo region, and along the upper reaches of the Fraser River, temperatures dropped below zero, Fahrenheit, on the 8th, and severely cold weather continued till the 17th, 30° below zero having been registered in the interval. The remainder of the month was, with the exception of the 26th and 27th, much milder. On the North Coast and on Vancouver Island, the second week was cold, minimum temperatures of the month occurring then, and ranging between 7° and 10° above zero. In the northern portion of the Okanagan Valley, portions of the Kootenays, along the Thompson River and the north branch of the Columbia, the second week was marked by temperatures well below zero. At Glacier and Golden, in the last-mentioned locality, 15° and 27° below zero were registered, respectively.

The mean temperature of the month was lower than the normal November temperature over the whole of the province. The difference from normal, while not great on the coast or on Vancouver Island, ranged between 6° and 10° in the interior.

THE WESTERN PROVINCES.

The mean temperature of November, 1911, was well below the average of the preceding twenty-five years, the differences ranging from 4° to 11°. At Winnipeg, the mean was nearly 7° below the twenty-five year average, but compared with the average temperature of the preceding forty years (including the observations made in the early days of Manitoba at Fort Garry), was only 3° less. In the more northerly portions of Alberta and Saskatchewan, the differences from normal temperature were least. In Manitoba the lowest mean temperatures were, speaking generally, found in the western portion.

The month began with temperatures very close to zero, but the remainder of the first week was mild. A period of severe cold began on the 9th and lasted till the 18th, during which the thermometer registered temperatures lower than 20° below zero in practically all districts, and 30° below in many places lying north of the 52nd parallel. During the remainder of the month the weather was, on the whole, milder, although on the 28th and 29th, the minimum temperatures were again everywhere below zero.

ONTARIO

The weather of the Lake Superior districts was very similar to that experienced in eastern Manitoba. In the northern portion of the District of Nipissing the lowest temperatures of the month, from 10° to 15° below zero, were recorded on the 16th and 17th, and again on the 25th, while 5° below was registered on the last two days. In the Lake Temiskaming district the cold was not so severe, the mean temperature at Haileybury exceeding that at Porcupine and at Cochrane by 6°, while the lowest temperature at Haileybury was 2° below zero, registered on the 25th. The mean temperature at Stonecliff, on the upper Ottawa River, was 2° higher than that of Haileybury, while the mercury did not descend below zero during the month, the coldest days having been the 17th and 25th, when 1° above was the minimum reading.

In the peninsula of Ontario mean temperatures ranged from 2° to 4° below the normal and were about 10° higher than the mean temperatures of the Lake Temiskaming region and about 16° higher than those of Northern Nipissing. Except locally in the counties below the Georgian Bay, and in the central counties of South Eastern Ontario, temperatures below zero were not recorded in southern Ontario.

QUEBEC.

In Western Quebec the coldest days of the month were the 15th, 17th, 18th and 23rd, the minimum temperature generally occurring on the 17th and ranging from 7° to 10° through the district. Along the Middle St. Lawrence the minimum occurred in the last week and varied between 5° and 10°.

In Northern Quebec the cold was more severe, 2° below zero having been registered on the 30th at La Tuque, and 10° below at Lake Edward. On the Saguenay River the coldest weather, 3° above zero, was experienced during the last week. 5° below was recorded on the 16th and 17th at Abitibi, and 15° below on the 22nd, 24th and 25th. In the Gaspé Peninsula the extremes of temperature were 63° and 9°.

The mean temperature of the month was about 2° lower than the normal over the greater part of Quebec, but at Montreal was scarcely 1°, and at Abitibi nearly 5° lower.

THE MARITIME PROVINCES.

Mean temperatures ranged between 1° and 2° below the normal except in the southwestern portion of Nova Scotia, where the difference was practically nothing. The lowest temperatures of the month were, in nearly all instances, about 15°.

The highest and lowest temperatures recorded in each Province during the month of November, 1911, were:

British Columbia	68°	at Ruskin on the 1st,	—31°	at Chilcotin on the 10th.
Alberta	62°	at Alix, on the 25th,	—37°	at Banff on the 11th.
Saskatchewan	56°	at Indian Head on the 4th,	—35°	at Regina on the 11th.
Manitoba	51°	at Aweme on the 4th,	—28°	at Brandon on the 15th.
Ontario	70°	at Southampton on the 12th,	—22°	at White River, 16th and 21st.
Quebec	67°	at Brome on the 12th,	—15°	at Abitibi on the 22nd.
New Brunswick	65°	at Chatham on the 13th,	6°	at St. Stephen on the 26th.
Nova Scotia	63°	at Wolfville on the 13th,	11°	at Truro on the 4th.
P. E. Island	59°	at Charlottetown on the 13th,	13°	at Charlottetown on the 13th.

PRECIPITATION.

BRITISH COLUMBIA.

In the interior of the Province, except in the southeast Kootenay, the precipitation was in excess of average. On the lower Fraser and the coast, as well as locally in the Cariboo region, there was a deficiency. On Vancouver Island, however, the excess was from one-third to one-quarter of the average. In the lower interior the precipitation consisted of rain during the first and third weeks, and of snow during the second.

THE WESTERN PROVINCES.

At Banff precipitation was nearly normal, while at Medicine Hat it was in excess. Elsewhere in Alberta there was a small deficiency.

In Western Saskatchewan there was nearly the normal amount, while eastwards precipitation was in excess by more than one hundred per cent. of the normal.

In Manitoba the distribution was very irregular, some places showing a small deficiency and others a moderate excess.

Rain occurred at many places throughout the West on the 3rd and 4th, and at a few on the 5th, but during the remainder of the month precipitation consisted wholly of snow.

ONTARIO.

Precipitation was nearly everywhere in the province very heavy, and much in excess of average. Thunder and lightning accompanied rain on the 11th in the northern districts. In northwestern Ontario and the Georgian Bay district snow fell every day from the 13th to the 20th, and again on the 22nd, 23rd, 25th, 27th, 28th. In the southern counties the precipitation was more often in the form of rain.

QUEBEC.

At Montreal, in the "Eastern Townships," and at Father Pt. the precipitation was a little less than normal, but at Quebec City the average was well exceeded, while at Cape Chatte and Cape Magdalen the precipitation was very heavy. At Abitibi there was an excess of about 80 per cent.

THE MARITIME PROVINCES.

While there were some local exceptions, for the most part in Southern New Brunswick, the precipitation in the Maritime Provinces was in the main above average, and in some parts of Nova Scotia heavily so. In northern New Brunswick rain and snow fell on an equal number of days, but elsewhere rain on a large majority of days.

DEPTH OF SNOW ON THE GROUND.

On the last day of the month the ground was snow-covered from Saskatchewan to the Maritime Provinces with the exception of a large part of Southern Ontario where the ground was bare. In northern districts the depth exceeded 12 inches, elsewhere it was from 2 to 8 inches.

THICKNESS OF ICE.

Thickness of ice was reported as follows:—

Western Provinces.—Battleford, 6 inches; Swift Current, 26; Minnedosa, 14.
Ontario.—Cochrane, 4 inches; Port Arthur, 4; Ottawa, 5.5.
Maritime Provinces.—Fredericton, 4 inches.

ATMOSPHERIC PRESSURE.

The mean value of the atmospheric pressure for November was in excess of the average in Alberta and British Columbia, and in defect elsewhere in Canada. Positive differences were about 0.05 of an inch in British Columbia and about 0.02 of an inch in Alberta, while the amount of the defect increased eastwards from Saskatchewan to about 0.12 of an inch over the Gulf of St. Lawrence and the eastern part of the Maritime Provinces. The extremes of departure from average were +0.065 of an inch at Victoria, B.C., and -0.136 of an inch at Father Point, Que.

HIGH AREAS.

Seven areas of high pressure were charted; four first appeared in the Yukon Territory and three on the Pacific Coast of the United States. The general track of the areas was south of the Great Lakes to the Middle Atlantic coast, thence either directly out to sea or over the Maritime Provinces and Newfoundland. The areas were for the most part very pronounced and attended by much cold weather. The system which on the 21st passed into the North Pacific States from the coast, afterwards proved to be of remarkable energy and persistence. It covered the Pacific States, its centre shifting northwards and southwards until the close of the month and the early days of December—a branch, however, meanwhile detached itself from the main area and passed between the 28th and 30th to the Gulf of Mexico.

LOW AREAS.

Sixteen areas of low pressure were charted. Eleven first appeared in the northwestern portion of the continent, one in the North Pacific States, one in the Western States, one in the Southwest States and two in the Gulf of Mexico. The general track of the areas was over the Great Lakes and down the St. Lawrence Valley; the two systems which appeared in the Gulf of Mexico proving the exception to the rule and passing up the United States Atlantic Coast. The areas were in many instances of much energy and quite often of unusual intensity and gales were of frequent occurrence. The total wind mileage for the month from British Columbia to our Atlantic Coast was very considerable and much in excess of the large amount which is as a rule recorded in November.

WINDS, NOVEMBER, 1911

PROVINCES AND STATIONS.	Total Mileage.	Greatest Mileage in 24 hours.	Greatest Mileage in one hour.	Number of days of Gales.	Number of days of Strong Winds.	Number of days of Fresh Winds.	General Direction.
British Columbia.							
Victoria	6840	534	37	4	10	3	S.W.
Point Garry	7125	603	35	7	8	6	E.
Alberta.							
Edmonton	4371	346	23		1	2	
Calgary	3963	249	21		1	5	W. & N.W.
Saskatchewan.							
Swift Current	6632	330	20		3	12	SW.
Qu'Appelle	8257	432	24		9	11	SW. & W.
Prince Albert	3495	227	15			2	W.
Manitoba.							
Winnipeg	8202	470	30	1	10	9	SW.
Ontario.							
Port Arthur	9168	695	42	7	11	4	NW.
Parry Sound	8436	576	32	2	6	14	SE. & SW.
Southampton	10666	738	34	5	16	5	S. & S.W.
Pelee Island	12592	813	58	12	13	4	
Woodstock	8911	635	31	5	9	7	SW.
Toronto	11991	902	43	6	16	5	SW. & W.
Quebec.							
Quebec	10422	639	44	6	13	8	SW.
Maritime Provinces.							
Fredericton	7108	592					NW.
St. John	12467	858	44	14	8	2	NW.
Halifax	10452	593	44	9	11	4	NW.
Point Lepreaux	16009	1038	54	19	4	2	W.
Flat Point	15576	1188	56	21	6	2	W.
Charlottetown	7497	567	30	1	8	9	NW.

PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA, NOVEMBER, 1911.

a Barometer not reduced to Sea Level *Stations not furnished with Registering Thermometers

STATION.	Latitude N.	Longitude W.	Elevation above sea level, in feet.	Pressure. Mean reduced	Highest.	Lowest	Range.	Temperature. Mean.	Difference from average.	Yr's Observations Highest.	Date.	Lowest.	Date.	Mean daily range	Mean temperature of dew point.	Mean relative humidity.	Mean amount of cloud.	No. of days completely clouded.	Direction of Wind from N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.	Total number of observations	Velocity of Wind Mean miles per hour	Highest day's velocity	Date and direction from	Precipitation Amount	Difference from average	Greatest fall in month	Days with .01 or more	No. of sunrises	No. of thunder-storms	No. of fogs
British Columbia—																																					
Alberni (Beaver Creek)	49	15	124	49	300				37 3	— 4 9	16	64 0	3	9 0		11	11 0															8 90	— 3 16	3 05	23	7	0	0	0
Agassiz	49	14	121	31	52				38 2	— 1 6	21	63 0	1	12 0	11	13	14 1															9 96	+0 60	1 65	16	14	0	0	0
Athn	59	35	133	38	2240	29 96	30 71	29 25	1 46	18 2	—	6 45	0	2	—13 5		12 10	2	6	3	21	8	4	4	16	0	1	0	6	60	10 2	48 0	28 S	1 12		0 30	9	21	0	0	2
Barkerville	53	2	121	35	4180	29 97	30 55	29 60	1 95	18 0	— 9	7 23	40	0	2	24	0	10	11	9	7	12	0	0	0	0	2	4	0	0	54	60	1 2	20 0	28 SW	2 99	-0 17	0 45	13	17	0	0	5
Bella Coola	52	40	126	54						30 1		12 53	0	1	7 0	10	11 8	9															6 79	+0 34	1 18	16	14	0	0	5
Babine Lake	55	38	126	26																																		
Boswell	49	19	116	41																																		
Chilcotin (Big Creek)	51	40	123	0						17 9		7 54	0	2	—31 0		10 22	9															2 17	—	0 99	8	22	1	0	0
Cranbrook	49	30	115	50						23 0		3 46	0	5	—23 0		10 23	5															1 46	—	1 80	4	25	0	0	1
Clayoquot	49	11	125	47	40					44 5		12 58	0	3	22 5		10 10	3															18 56	1 66	2 92	18	12	0	0	0
Cowichan (Tzoahalem)	48	25	123	42	170					40 0		5 59	0	3	7 0		11 12	2															6 60	—	1 15	22	8	0	0	0
Chilliwack	49	10	121	57	21					37 8		10 55	0	4	10 0		11 10	1															12 87	—	1 95	22	8	0	0	0
Crawford Bay	49	15	116	45	2000					29 3		1 49	0	4	5 6		9 12	7															8 28	—	0 94	15	15	0	0	0
Enderby	50	32	119	7	1180					25 1		6 49	0	4	— 4 0		10 14	1															6 68	—	1 90	24	10	0	0	0
Fort St. James (Stuarts Lake)	54	28	121	12	2280					18 7	— 5 7	18	44 0	4	29 5		11 21	9															2 00	+0 19	0 54	10	20	0	0	0
Fairview	49	11	119	36						36 8		2 48	0	1 14	21 0		30 13	8															0 73	—	0 15	8	22	0	0	0
Fruitvale	49	9	117	31																																		
Glacier	51	14	117	29	4072					18 6		10 39	0	3	—15 0	10	12 10	2															12 05	— 3 96	1 80	18	12	0	0	2
Golden	51	16	116	55	2350					16 0		10 41	0	4	—27 0		11 17	1															3 30	+0 45	0 60	11	14	0	0	0
Grand Forks	49	2	118	27						25 1		1 53	0	4	— 7 0		11 13	1															2 51	—	0 45	15	15	0	0	0
Greenwood	49	5	118	49																																		
Holberg	50	39	128	18						40 0		2 53	0	3	20 0		10 7	3															1 80	—	1 08	22	8	0	0	0
Hedley	49	35	120	10	1771					28 3		8 52	0	3	— 8 0		10 13	6															1 18	—	0 37	15	15	0	0	0
Hedley (Nickel Plate)										—	—	N	—	—	—25 0		11	—															4 40	—	0 60	12	18	0	0	0
Hope	49	23	121	25						32 5		2 51	0	1 2	0 5		11 10	1															1 49	—	1 16	17	15	0	0	0
Ikeda Bay	52	17	131	7	5					40 6		4 55	0	2	15 6		8 6	8															8 06	—	2 92	16	14	1	1	0
Kamloops	50	41	123	4	1245	30 08	30 86	29 56	1 36	26 2	- 8 8	8 21	53 5	4	— 5 9		11 12	7	80	6	8	1	5	9	1	3	6	15	5	13	60	4 9	19	10 S	2 01	- 89	0 71	1	17	0	0	1
Ladner	49	5	123	4						41 5		11 62	0	2	10 0		10 12	3															7 91	+1 83	1 05	19	11	0	0	0
Massett, Q C I	53	58	132	9	30					38 9	— 0 5	14	54 0	3 4	18 0		14 9	1															4 76	—	0 73	0	50	17	13	0	0	0
a Nanaimo	49	10	123	37	125	29 92	30 51	29 33	1 18	39 9		11 57	3	3	14 0		11 10	0	94	8	18	0	0	0	11	0	2	1	16	27	60	5 4	35 0	11 SE	5 74	-2 86	2 15	21	9	0	0	1
Nicola Lake	50	9	120	39	2120					26 4	4 7	16	55 0	4	—15 0		11 12	1															2 48	+1 39	1 01	10	20	0	0	0
North Nicomen	49	12	122	2	59					38 9	— 3 7	18	55 0	18	9 0		11 11	9															15 46	+2 86	2 45	19	11	0	0	0
New Westminster	49	13	122	54	330					39 0	— 4 2	24	52 4	1	9 1		11 9	8															11 57	+2 68	1 81	20	10	0	0	3
Nelson	49	29	117	21	1760					30 6		10 48	0	2	7 0		11 11	4															5 15	+1 66	0 97	14	16	0	0	0
Needles	49	40	118	9						32 0		2 49	0	1 3	7 0		11 12	4															3 60	—	1 00	9	21	0	0	0
Okanagan Mission	49	52	119	29	1200					28 5	— 8 0	12	51 0	3	2 0		11 11	7															3 21	+1 94	0 46	13	17	0	0	0
Princeton	49	29	120	29	1650					24 3	— 7 0	16	51 0	3	—18 0		11 16	1															3 12	+1 10	0 70	14	16	0	0	0
Penticton	49	29	119	35						33 7		5 55	5	3	1 0		11 14	1															1 54	—	0 32	13	17	0	0	0
Pemberton Hatchery	50	20	122	33						29 5		4 51	0	3	1 0		11 8	8															0 66	—	1 32	16	14	0	0	0
Prince Rupert	54	18	130	18	170	29 85	30 44	29 37	1 07	36 9		2 58	0	27	13 0		9 8	7	87	8	18	2	9	19	5	7	0	0	0	18	60	5 1	20 0	—	8 40	—	1 01	22	8	0	0	0
Quesnelle	52	59	122	30	1700					20 4	— 9 5	16	46 0	5	—17 0		14 15	8															1 56	+0 60	0 78	7	27	0	4	3
Revelstoke	51	0	118	6	1456					25 7		12 44	0	2 6	4 0		11 10	9															5 07	-0 33	0 67	23	10	0	0	1
Rossland	49	5	117	48	3400					27 4		8 12	0	3 4	2 0		11 8	1															3 25	—	0 65	12	18	0	0	1
Ruskin (Stave Falls)	49	16	122	23	125					39 6		2 08	0	1	7 0		10 11	8															17 77	—	4 80	21	9	0	0	6
Salmon Arm	50	42	119	35	1152					27 2		10 51	0	4	— 4 0		11 10	7															3 86	—	0 77	14	16	0	0	0
Salmon Arm (Ex. Farm)										26 7		1 46	0	1	1 0		11 14	0															4 14	—	0 85	10	20	0	0	0
Steveston (Garry Point)	49	21	123	17						39 3	— 2 1	16	54 0	6 8	6 0		11 12	0															5 86	-0 73	0 88	19	11	0	0	0
Swanson Bay	50	37	126	53						35 5		(4 51	0	2	13 0		9 6	9															27 53	—	3 65	17	13	0	0	0
Summerland	49	37	119	0	1100					29 0		5 54	0	3	— 4 0		11 13	1															1 78	—	0 70	5	25	0	0	0
Sooke	48	41	123	44	25																																	

Stewart	56 1	130 1	215					27.3		2 47.0	3 2.0	14 8.4																	8.70	—	1.60	16 14	0	0	0
Salt Spring Island	48 50	123 20						40.8		3 54.0	3 14.0	11 9.7																	5.75	—	1.49	16 14	0	0	3
Tobacco Plains (Elko)	49 1	115 5	2684					25.3	−7.2	16 51.0	18 20.0	11 12.3																	2.60	−1.47	0.80	8 22	0	0	0
Triangle Island	50 52	129 5	680										80	7	8	9	4	12	5	2	9	5	6	8	60										
[a] Tranquille	50 41	120 29		28.74	29.46	28.21	1.25	26.4		4 53.0	4 −6.0	11 13.7																	1.91	—	0.75	10 20	0	0	0
Vernon (Coldstream Ranch)	50 14	119 15	1575					26.6	−6.0	17 48.0	4 −7.0	11 10.8																	4.07	−2.53	0.56	13 17	0	0	0
Victoria	48 24	123 19	85	30.04	30.47	29.35	1.12	42.8	−3.0	19 56.1	3 14.2	11 9.2	88	8	8	15	8	7	5	5	16	2	1	1	60	9.9	37.0	20 sw	7.40	+1.33	1.32	21 9	0	0	2
Vancouver	49 17	123 5	136	30.06	30.58	29.39	1.19	39.9		11 52.8	3 9.6	11 8.0	88	8	15	0	7	25	7	0	3	3	2	13	60	3.6	18.0	5 w	12.68	+1.04	1.88	23 7	0	0	3
Winter Harbour	50 32	128 3						42.8		15 56.5	4-5 18.0	10 7.6																	16.44	+4.15	3.01	25 5	0	0	0
Wilmer	50 34	116 14						11.2		3 41.0	18 25.0	11 13.4																	1.10	—	0.60	4 26	0	0	0
Yukon—																																			
Carcross	60 11	134 34	2171					14.2	—	5 54.0	3 26.0	13 14.3																	1.28	—	0.10	8 22	1	0	1
Dawson	64 4	139 20	1200	30.23	31.08	29.31	1.77	−4.2	−3.5	10 30.0	3 −34.0	15 11.6		6	8	2	0	4	7	1	0	8	2	36	60				1.05	−0.12	0.30	8 22	0	0	0
Alberta—																																			
Athabasca Landing	54 43	113 17	1650					14.8		8 53.0	2 −32.0	14 21.7				2	1	2	1	4	2	10	8	0	30				0.50	—	0.22	4 26	0	0	0
Alix	52 24	113 10						16.8		6 62.0	25 −24.0	13 26.3				2	5	0	1	3	6	0	7	6	30				0.74	—	0.20	4 26	0	0	2
Banff	51 10	115 34	4542	30.10	30.90	29.66	1.24	17.5	−6.5	16 45.8	2 −37.1	11 17.8			6	2	10	0	0	2	26	10	0	10	60				1.64	−0.03	0.35	13 17	0	0	0
Blairmore	49 40	114 30	4225																										1.50	...	0.40	7 23	0	0	0
Calgary	51 2	114 2	3389	30.05	30.80	29.48	1.32	18.6	−6.9	27 51.0	24 −21.0	10 18.9			3	6	2	3	4	3	1	5	28	8	60				0.61	−0.11	0.26	8 22	0	0	1
Cardston	49 12	113 18						20.7		51.0	2 −28.0	9 23.5																							
Didsbury	51 40	114 8	3300					23.5		10 54.0	2 −26.0	10 23.3																	0.65	—	0.40	3 27	0	0	0
[a] Dunvegan	55 56	118 35	1305																																
Daysland	55 52	112 17																																	
Delia	51 38	112 25						13.8		1 45.9	3 −24.5	11 14.1																	0.24	—	0.06	9 21	0	0	0
Edmonton	53 33	113 30	2158	30.02	30.69	29.47	1.22	19.6	−4.6	28 51.0	2 −24.0	14 21.0			5	8	2	1	5	7	7	19	8	3	60				0.52	−0.32	0.20	10 20	0	0	0
Eckville	52 23	114 22																																	
Endiang	51 58	112 6	2795					17.8		2 50.0	3 −23.0	10 18.6																	0.74	—	0.35	3 27	0	0	0
Fort Vermilion	58 27	116 3						4.7		6 53.0	3 −33.5	15 32.8																	0.75	—	0.30	5 25	5	0	2
Gleichen	50 59	112 54	2952																																
Gilt Edge	52 59	110 43																																	
Hillsdown	52 14	113 29	2806					18.5		7 48.0	18 −22.0	13 19.0				0	4	1	6	11	8	0	24	6	60				1.14	—	0.15	11 19	1	0	1
High River	50 35	113 53	3394					17.4		8 50.0	3 −23.0	10 20.8																	0.95	—	0.35	9 21	0	0	1
Harmattan	51 45	114 23	3500					15.7		5 52.0	3 −30.0	13 29.1																	0.60	—	0.25	4 26	0	0	0
Halkirk (Emsburg)	52 17	112 10						18.2		2 50.0	3 −17.0	9 18.4				2	2	0	5	9	17	7	18	0	60				0.46	—	0.15	6 24	0	0	0
Lethbridge	49 42	112 51	2961					21.7		10 50.8	4 −19.1	10 20.4																	1.25	—	0.35	12 18	0	0	0
Lethbridge (Ex. Farm.)	49 43	112 51						21.3		4 50.4	3 −23.5	10 21.8																	0.95	—	0.17	8 22	0	0	0
Lacombe	52 58	113 44	2783					15.7		4 46.0	2 −21.6	11 22.8																	0.78	—	0.16	9 21	0	0	0
Laurence	50 16	113 26						12.7		4 42.0	16-18 −29.0	10 23.2																	1.25	—	0.49	7 23	0	0	2
Lunnford	54 33	114 19						15.5		3 52.6	2 −31.4	14 25.4																	0.45	—	0.20	3 27	0	0	0
Loveland	52 30	111 59						16.5		2 52.0	3 −19.0	11 15.9				0	4	0	4	1	5	13	3	0	30				0.30	—	0.30	1 29	0	0	0
Medicine Hat	50 1	110 37	2161	30.02	30.76	29.32	1.44	20.7	−7.7	27 55.0	3 −26.0	11 21.2			19	6	7	3	12	13	30	3	3	13	90				2.20	+1.45	0.70	6 24	0	0	0
Macleod	49 44	113 24	3128					21.2	−7.5	14 50.0	3-4 −23.5	10 18.7				0	0	0	0	0	0	18	2	10	30				0.62	−0.11	0.20	5 25	0	0	0
Moose (Tyrol)	51 15	110 39																																	
Peace River Crossing	56 15	117 15						12.4		4 53.0	2 −33.0	13 21.9																	0.75	—	0.35	4 26	0	0	0
Pembina	54 12	114 0						16.5		4 60.0	3 −26.0	14-15 25.5				1	7	4	1	6	27	9	5	0	60				0.40	—	0.40	1 29	0	0	0
Pakan (Victoria)	54 0	112 31						14.1		7 49.9	2 −29.0	14 26.1				1	2	3	1	4	10	9	16	7	53				0.54	—	0.19	6 24	0	0	0
Pincher Creek	49 0	114 4	3750					22.0		15 47.0	20 −21.0	10-11 14.8																	1.93	—	0.97	4 26	0	0	0
Red Deer	52 16	113 49																																	
Spirit River	55 40	118 47																																	
Sundial	50 6	112 34						19.4		1 59.5	3 −21.0	9 19.0																	0.80	—	0.80	1 29	0	0	0
Threehills Creek	51 30	115 11																																	
Wetaskiwin	52 58	113 23	2480					16.6		10 48.0	2 −29.0	14 22.3																	0.50	—	0.13	7 23	0	0	0
Waitefield	53 29	111 38	2000					15.0		6 51.5	3 −27.0	14 20.7				10	1	4	15	8	3	26	18	5	90				0.74	—	0.19	13 17	5	0	1
Saskatchewan—																																			
Battleford	52 41	108 20	1620	30.03	30.80	29.56	1.24	15.2	−3.8	20 53.0	3 −16.0	14 17.2			2	1	1	0	10	0	8	13	27	30	90				0.27	−0.22	0.21	5 25	0	0	0
Broadview	50 23	102 33	1960																																
Brownlee	50 45	106 0																																	
Chaplin	50 26	106 39	2202					11.7	−10.8	27 50.0	3 −23.0	13 21.8				1	2	0	1	0	2	6	18	0	30				0.07	−0.12	0.03	4 26	0	0	0
Cannington Manor	49 23	102 2	2064																																
Crescent Lake	50 59	102 25	1658					9.9		7 46.9	4 −31.8	15 20.9				2	1	1	2	4	5	8	7	0	30				1.34	—	0.60	9 21	0	0	1
Cumberland House	53 56	102 16						8.9	—	1 34.0	3-6 −19.0	13 16.4																	2.55	—	1.20	6 24	0	0	0
Chagoness	52 32	104 13						14.2	—	1 53.0	3 −21.0	13 15.9																	1.60	—	0.80	7 23	0	0	0
Duck Lake	52 54	106 20																																	
Estevan	49 12	103 4	1858					13.9	−14.0	12 47.0	5 −14.0	9 16.7				4	1	1	1	11	3	5	4	0	30				0.28	−0.11	0.10	3 27	0	0	0
East End	49 31	108 49																																	
Foxleigh	50 37	104 29																																	
File Hills	51 4	103 31																																	
Fort Qu'Appelle								13.1		1 50.4	3 −22.1	15 21.5																	0.20	—	0.04	8 22	5	0	0

PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA, NOVEMBER, 1911

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

STATION.	Latitude N.	Longitude W.	Elevation above sea level, in feet.	Pressure. Mean reduced.	Pressure. Highest.	Pressure. Lowest.	Pressure. Range.	Temperature. Mean	Temperature. Difference from average	Temperature. Yr's observations.	Temperature. Highest.	Temperature. Date.	Temperature. Lowest.	Temperature. Date.	Temperature. Mean daily range.	Mean temperature of dew point.	Mean relative humidity.	Mean amount of cloud	No. of days completely clouded.	Direction of Wind from N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.	Total number of observations	Velocity of Wind. Mean miles per hour	Highest day's velocity.	Date and direction from	Precipitation. Amount.	Difference from average.	Greatest fall in month	Days with .01 or more	No. of fair days	No. of Auroræ	No. of thunderstorms	No. of fogs
Saskatchewan—Continued.																																								
Grenfell (Brownhill)	50 23	102 53	1957					11 3	—10 1	12	45 0	4	—23 0	15	22 6					0	6	1	2	1	18	10	22	0	60				1 93	+0 95	0 40	11	19	0	0	0
Glenbryan (Larchmount)	49 54	107 27						12 3		1	54 0	4	—25 0	14	21 1																	2 20	—	0 95	6	24	0	0	1
Humboldt	52 12	105 9																																					
Hubbard (Drinnagne)	51 5	103 24																																					
Indian Head	50 28	103 40	1924					13 0	— 7 8	20	56 0	4	—20 0	14	19 8					0	1	2	0	8	19	15	38	7	90				1 08	+0 30	0 70	5	25	0	0	0
Imperial	51 22	105 23						—	—	1	—	—	—22 0	15	—																	—	—	—	—	—	0	0	0
Kamsack	51 30	101 52																														0 65	—	0 25	3	27	0	0	0
Kelvinhurst	49 21	109 20						13 2		1	51 0	3	—27 0	10	21 8																	—	—	—	—	—	0	0	1
Lloydminster	53 18	110 0						13 4		4	51 2	3	—22 5	14	18 4																	0 91	—	0 60	2	28	0	0	4
Luseland	52 5	109 24						12 3		2	52 0	3	—24 0	14	19 0																	0 54	—	0 21	6	24	0	0	0
Lost River								7 8		1	41 0	1	—27 0	15	15 6																	0 54	—	0 25	7	23	0	0	0
Moose Jaw	50 21	105 35	1759	30 08	30 94	29 54	1 40	15 3	— 5 2	16	53 0	3	—20 0	14	21 0			5	5	6	9	4	1	9	25	13	18	90				—	—	—	—	—	0	0	0
Moosomin	50 0	101 37	1884					11 9		9	48 0	3 4	—24 0	15	16 4					0	1	1	2	8	4	9	5	0	30										
Munster (St. Peters Monastery)	52 0	105 0	1870					10 8		5	47 0	3	—27 0	15	15 5					0	5	0	1	0	22	9	22	1	60				0 60	—	0 20	5	25	3	0	0
Melfort	52 47	104 30						10 6		6	44 5	3	—24 0	15	17 4																	1 70	—	0 70	5	25	1	0	0
Maple Creek (Divide)	49 55	109 28	3500					15 4		2	50 6	3	—19 2	11	14 3																	1 37	—	0 60	6	24	0	0	2
Onion Lake	53 52	109 59						10 3		3	45 0	3-27	—30 0	14	23 3					4	2	5	2	4	1	3	9	0	30				—	—	—	—	—	0	0	0
Oliver	51 46	108 10						11 2		2	52 0	3	—24 0	13	21 2																	0 18	—	0 14	2	28	2	0	0
Pense (Gatesgarth)	50 20	105 0	1879					13 6		13	52 0	3	—24 0	10	21 8					3	2	0	8	0	3	7	7	0	30				0 11	—	0 11	1	29	1	0	0
Prince Albert	53 10	106 0	1432	29 98	30 79	29 17	1 62	11 9	— 6 4	27	53 9	3	—25 0	15	17 7					10	3	4	0	6	9	12	4	12	60				2 26	+1 29	0 50	10	20	0	0	0
Prince (Meota)	51 0	108 20	1700					10 1		5	53 0	3	—27 0	14	22 3																	0 80	—	0 35	5	25	4	0	1
Pilger	52 25	105 9						8 7		1	48 0	3	—32 0	15	30 4																	1 60	—	0 60	3	27	0	0	0
Qu'Appelle	50 30	103 47	2115	29 99	30 87	29 52	1 35	13 3	— 7 8	27	46 0	3	—18 0	10	15 8					0	0	2	2	9	13	11	23	0	60				0 80	—0 19	0 40	5	25	0	0	0
Quill Lake	52 4	104 14	1600					—	—	1	—	—	—32 0	13	—																	0 06	—	0 06	1	29	0	0	0
Regina	50 27	104 37	1885					11 6	— 7 7	26	47 0	3	—35 0	11	20 6																	1 38	+0 86	0 43	8	22	0	0	0
Rathmullen	51 20	108 57						7 5		2	49 0	4	—32 0	10-11	22 9																	0 48	—	0 20	6	24	0	0	0
Rosthern	52 49	106 20	1657					9 8		1	49 0	4	—28 0	15	19 6																	1 20	—	0 40	4	26	0	0	0
Swift Current	50 20	107 48	2430	30 09	30 87	29 58	1 29	15 3	—11 4	25	50 0	3	—21 0	10	15 1			2	1	3	4	0	9	15	43	10	5	90				0 64	+0 01	0 32	9	21	0	0	0
Saskatoon	52 15	106 30	1571					11 4		10	50 2	4	—24 2	15	21 8																	0 70	—	0 40	5	25	0	0	0
Strassburg	51 5	104 56						10 8		1	48 0	3	—20 0	10-12	18 3																	0 20	—	0 20	1	29	0	0	0
Scott (Ex. Farm)	51 59	109 30						11 7		1	50 1	3	—21 8	13	20 1																	0 25	—	0 17	2	28	0	0	0
The Pas	53 49	101 15	860	30 00	30 86	29 52	1 34	9 9		2	40 0	3	—17 0	11-14	15 6			3	4	2	10	1	8	4	30	1	0	60				1 60	—	0 70	6	24	0	0	0
Wascca	53 6	109 20						12 5		3	48 0	3	—24 0	14	20 6					0	3	2	3	3	5	8	6	0	30				0 57	—	0 20	6	24	3	0	0
Yorkton	51 11	102 29																																					
Yarbo (Fairfield)	50 39	102 4																																					
Yellow Grass	49 49	104 9						14 1		1	47 0	3	—16 0	12	20 7																	0 46	—	0 15	6	24	1	0	0
Manitoba—																																							
Almasippi	49 14	99 20						15 1		9	47 0	4	5 —27 0	15	19 6																	0 80	—	0 20	5	25	0	0	0
a Aweme	49 42	99 33	1180	28 72	29 50	28 41	1 09	13 5	—14 6	27	51 0	1	—25 0	15	21 6																	1 06	+0 31	0 45	10	20	3	0	0
Brandon	49 51	99 57	1176					10 6	—10 4	24	50 7	5	—28 2	15	22 4			5	0	4	7	2	1	0	6	18	29	17	84				0 60	—0 21	0 30	3	27	0	0	0
Berens River	52 18	97 23	710					12 8		4	35 0	4-9	—22 0	28	15 9					15	2	13	1	11	6	4	5	0	60				2 65	—	1 60	4	2	0	0	0
Birtle	50 25	101 1	1703																																				
Carberry	49 52	99 20	1258					—		6	—	—	—	—	—																	0 90	—	0 40	3	27	0	0	0
Carman	49 31	98 0	872																																				

Cypress River	49	33	99	3	1232																																					
Dauphin	51	8	100	2	957					14.5		5	49.0	4	-11.0	15	17.2																		—	—	—	—	—	0	0	0
Hillview	49	55	100	33	1490					11.6	-8.2	26	47.0	4	-21.0	15	19.1			4	3	8	1	9	0	2	18	18	31	0	90				1.60	+0.38	0.50	5	25	2	0	1
Minnedosa	50	15	99	50	1599	30.01	30.78	29.58	1.20	13.1	-8.0	28	47.0	4	-22.6	15	19.1			4	—	4	1	5	0	0	0	5	17	28	60				0.83	-0.19	0.30	7	23	2	0	0
Morden	49	11	98	6	978					16.4	—	8	49.0	5	-20.0	15	19.1					7	1	2	1	1	11	16	13	8	60				1.20	—	0.60	3	27	0	0	0
Moose Horn Bay (Aitkenville)	51	15	99	33						12.9	—	2	43.0	6	-16.1	28	17.4					14	1	4	4	5	4	7	12	9	60				1.34	—	0.50	12	18	10	0	0
Ninga	49	14	99	51	1649					9.8	—	2	37.7	1	-20.0	13	20.1																		1.86	—	0.65	4	26	0	0	0
Ninnette	49	24	99	38	1363																																					
Oak Bank	49	57	96	42	800					14.9	-12.2	15	43.7	5	-21.7	15	15.6					4	0	1	1	2	4	7	11	0	30				0.90	+0.21	0.30	4	26	0	0	0
Pipestone	49	34	100	58	1400																																					
Portage la Prairie	49	57	98	17	830					15.0	-7.8	17	49.0	3-7	-19.0	15	20.0																		0.98	+0.40	0.50	5	25	0	0	0
Portage la Prairie (2)	49	56	98	17																																						
Pierson	49	11	101	5	1531																																					
Stony Mountain	50	40	97	14	803					14.3	-5.5	31	43.0	5-6	-24.0	15	22.1					6	1	3	2	10	10	15	13	0	60				0.35	-2.25	0.20	5	25	0	0	1
Swan River	52	6	101	15	1112					13.6	—	4	50.0	3	-21.0	10	16.6																		1.40	—	0.60	4	26	0	0	0
Treherne	49	36	98	40	1212					14.8	-6.7	16	48.0	4	-17.0	15	17.5																		1.05	—	0.50	8	22	3	0	1
Virden	49	51	100	35	1444																																					
Winnipeg	49	53	97	7	760	30.02	30.78	29.60	1.18	17.9	-6.6	36	50.8	3	-15.0	15	18.0			5	4	4	2	0	7	13	8	11	12	3	60				0.59	-0.49	0.16	7	23	0	0	2
ONTARIO—																																										
Alton	43	51	80	5	1250					28.6	-4.4	25	62.2	12	1.6	22	16.9			6	6	4	0	16	4	15	15	34	2	0	90	II	IV	7 w	4.05	+1.18	1.54	10	20	0	0	1
Aurora	43	57	79	24	886					31.5	—	4	60.3	12	6.0	17	14.8																		3.23	+0.66	0.95	11	19	0	0	0
Agincourt	43	47	79	16	590					33.7	-2.0	15	60.0	12	12.8	17	13.4																		3.45	+0.60	1.01	12	18	0	0	1
Barrie	44	23	79	41	839																																					
Beatrice	45	8	79	20	800					29.5	-1.4	36	62.0	12	-5.0	22	17.3			8	16	5	0	1	11	16	10	1	21	25	90	II	IV	—	8.95	+4.27	1.50	16	14	0	0	0
Bruce Mines	46	18	83	55	595					28.1	-4.5	13	55.0	10	-1.0	21	15.6																		4.40	+2.78	1.36	15	15	0	1	0
Birnam	43	2	81	55	600					33.8	-2.6	27	65.4	11	14.0	13	9.7					1	2	7	4	17	5	16	8	0	60				5.41	+1.66	0.97	14	16	0	0	0
Brantford	43	10	80	21	750					33.8	-2.8	29	66.0	11	7.0	21	14.9																		1.08	-1.60	0.37	5	25	0	0	0
Bloomfield	43	59	77	21	260					33.8	-3.0	12	60.0	12	10.0	17	13.3																		2.30	—	0.50	8	22	0	0	0
Bancroft	45	1	77	50						—		22	57.0	12	-2.0	21	—																		3.04	—	1.50	3	27	0	0	0
Copper Cliff	46	30	80	59						25.1	—	4	60.0	12	-7.0	16	19.3																		4.22	—	1.16	9	21	0	1	0
Clinton	43	32	81	37						33.6	—	9	64.0	12	15.0	22	11.0					6	0	4	6	11	11	16	6	0	60				4.38	—	0.70	17	13	0	0	0
Coldwater	44	38	79	40	600					29.1		23	60.0	10	-12.0	21	20.2																		1.97	-2.43	0.75	7	23	0	0	0
Cottam	42	7	82	45	606					33.3	-6.0	24	64.0	11	9.0	12	19.5					6	1	1	0	16	0	34	2	0	60				4.61	+1.15	1.06	11	19	0	0	0
Chatham	42	23	82	12	595					33.9	-4.7	25	64.0	10	11.0	13	14.9																		4.00	+1.12	0.90	10	20	0	0	0
Collingwood	44	31	80	2						32.3	-0.7	17	65.0	12	9.0	22	15.5																		1.23	—	0.45	7	23	0	0	0
Cochrane	49	2	81	0	946					18.8	—	1	50.0	12	-10.0	16	15.2					7	3	11	0	11	1	22	2	3	60				2.46	—	0.70	6	24	0	0	0
Elora	43	41	80	21	1274					30.6	-2.8	15	63.0	11	11.0	17	14.4																		5.10	+1.96	1.65	13	17	0	1	0
Gravenhurst	44	54	79	20						30.0	-2.2	40	61.0	12	-1.0	17	17.1			8	9	10	2	4	23	17	8	15	7	4	90	III	V	—	6.90	+3.51	1.30	15	15	1	0	0
Guelph	43	33	80	16						32.4	-2.8	24	65.0	12	9.0	13-22	12.6																		2.10	+0.16	0.67	9	21	0	0	0
Grimsby	43	13	79	36						35.9	—	2	69.0	12	17.0	13	13.4																		3.25	—	1.04	12	18	0	0	0
•Haileybury	47	29	79	39	687	29.92	30.42	28.92	1.50	24.8	-3.3	18	61.8	12	-2.1	25	15.9					4	1	2	9	9	7	9	16	3	60	II	V	12 sw	4.64	+2.04	1.05	19	11	0	2	1
Hamilton	43	16	79	54	303					35.9	-1.5	36	67.0	12	17.0	22	11.9																		2.11	-0.98	0.69	5	25	0	0	0
Haliburton	45	1	79	8	1050					27.8	-3.5	23	59.0	12	-7.0	17-22	17.6																		—	—	—	—	—	0	0	0
Huntsville	45	19	79	8						30.7		5	60.0	11	0.0	22	13.5																		—	—	—	—	—	0	0	0
Kenora	49	48	94	32	1102					15.3		10	38.0	26	-15.0	27	10.2																		0.40	—	0.15	4	26	0	0	0
Kakabeka Falls	48	29	89	26	912					18.5	—	4	42.0	3	-13.0	24	19.8																		1.63	—	0.40	9	21	1	0	0
Kingston	44	13	76	29	285	29.98	30.47	29.25	1.22	34.1	-2.0	37	57.8	11	10.7	17	14.0					4	12	3	3	2	10	18	8	0	60				3.68	+1.09	1.37	19	11	0	0	2
Kinmount	44	45	78	38	920					27.4	—	9	59.0	11	-10.0	16	18.2																		5.89	—	1.90	15	15	0	0	0
Lucknow	43	56	81	30	908					32.3		25	62.3	12	11.0	22	12.3																		4.62	+0.40	0.99	18	12	0	0	0
Lake Talon	46	15	78	48						26.4		17	63.0	12	-8.0	22	14.4																		2.41	+0.99	0.80	13	17	0	0	0
London	42	59	81	13	808	29.94	30.55	29.27	1.28	33.6		27	61.5	11	13.0	13	13.2			8	14	0	36	0	6	0	12	17	19	0	90				6.61	+3.78	1.43	17	13	0	0	0
Lakeside Home	43	40	79	24						36.5	—	6	58.0	10	19.0	17-22	13.0																		—	—	—	—	—	0	0	0
Lorne Park	43	32	79	37						36.2	—	3	65.0	12	16.0	22	15.4																		2.79	—	0.98	7	23	0	0	0
Lindsay	44	20	78	45	872					31.6	-1.0	32	60.1	12	2.0	17	16.1			8	10	6	0	5	6	11	25	11	9	17	90	II	VI	12 sw	3.95	+0.71	0.62	14	16	0	1	4
Lakefield	44	25	78	15	850					34.3		28	65.0	12	10.0	17-22	16.3																		3.35	+0.51	0.60	11	19	0	0	0
*Midland	44	44	79	53	750					32.8	—	4	48.0	27	15.0	16	—																		5.13	+1.95	1.03	10	29	0	0	0
Madoc	44	30	77	29	575					31.4	—	8	59.0	11	4.0	17	14.3																		3.07	—	0.60	13	17	0	0	0
Montague	44	56	75	57						—	—	2	51.5	7	4.5	17	—																		3.18	—	0.83	11	19	0	0	0
Montreal River	47	8	79	29						24.9	—	1	61.0	11-12	-8.0	21	16.7																		4.76	—	0.77	16	14	0	2	0
Matheson	48	29	80	26																																						
*North Bruce	44	23	81	25						34.0	-2.2	24	63.0	11	20.0	13	—					2	2	8	15	12	7	26	18	0	90				3.53	+0.32	0.82	14	16	0	0	1
North Gower	45	8	75	43																																						
Owen Sound	44	34	80	55	597					—	—	33	—	—	—	—	—					9	0	0	0	4	3	3	1	0	60				1.43	-2.12	0.35	5	25	0	0	0
Orillia	44	37	79	24	775					31.6	-0.5	20	59.0	11	6.0	22	14.0					2	0	2	4	5	6	4	7	0	30				1.70	-1.83	1.02	5	25	0	0	0
Ottawa	45	26	75	42	294	29.94	30.41	29.14	1.27	30.5	-1.8	29	60.0	12	7.0	17	12.6					1	6	18	2	2	5	16	10	0	60				3.44	+1.09	0.74	17	13	0	0	0
Port Arthur	48	27	89	12	644	29.93	30.58	29.30	1.28	22.9	-4.0	31	44.0	3	-4.0	21	17.0			7	15	3	2	3	5	2	8	14	21	2	60				1.52	+0.29	0.45	9	21	0	0	0
Port Stanley	42	40	81	13	592	30.01	30.61	29.36	1.25	35.4	-2.6	37	60.0	12	13.2	13	13.9			8	15	1	1	6	7	2	14	18	10	1	60				4.89	+1.88	0.72	22	8	0	0	0
Port Dover	42	47	80	13	635					33.5	-3.1	35	61.5	10	12.5	22	13.3					2	1	3	1	4	3	14	2	0	30				3.90	+1.13	0.61	15	15	0	0	0
Port Burwell	42	39	80	55	592					35.8	—	8	62.5	11	9.0	13	10.5																		3.92	—	0.75	9	21	0	0	0
Parry Sound	45	19	80	0	635	29.99	30.42	29.08	1.34	31.3	-2.2	35	63.0	12	4.0	16-22	15.1					3	6	1	16	0	16	0	16	2	60				5.83	+1.83	0.86	21	9	0	1	0
Point Clark	44	5	81	44	595					—	—	35	—	—	—	—	—					9	1	7	9	11	4	11	5	0	60				—	—	—	—	—	0	0	0
Pelee Island	41	50	82	35	585					39.1	-2.7	33	63.5	8	11.0	30	10.3																		3.89	+1.32	1.46	5	25	0	0	0

DEPARTMENT OF MARINE AND FISHERIES, CANADA: METEOROLOGICAL SERVICE.

PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA, NOVEMBER, 1911

a Barometer not reduced to Sea Level. * Stations not furnished with Recording Thermometer.

Station	Latitude N.	Longitude W.	Elevation above sea level, in feet	Pressure: Mean reduced	Pressure: Highest	Pressure: Lowest	Pressure: Range	Temperature: Mean	Temperature: Difference from average	Temperature: Yr's observations	Temperature: Highest	Temperature: Date	Temperature: Lowest	Temperature: Date	Temperature: Mean daily range	Mean temperature of dew point	Mean relative humidity	Mean amount of cloud	No. of days completely clouded	Wind from: N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.	Total number of observations	Velocity of Wind: Mean miles per hour	Highest velocity	Date and direction	Precipitation: Amount	Difference from average	Heaviest in 24 hours	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Ontario—Continued—																																								
Paris	43 12	80 25	840					34.3	2.1	22	64.0	12	14.0	22	14.0																		1.13	+0.8[illegible]	1.02	12	18	0	[illegible]	[illegible]
Peterboro'	44 17	78 19	722					32.8		11	60.0	11, 12	1.0	17	17.9																		2.74	+0.10	0.51	12	18	0	0	0
Porcupine	48 29	81 18						18.7	—	1	55.0	12	−11.0	25	16.3																		—			—	—	1	1	0
Providence Bay	45 40	82 14						28.8	—	1	54.0	12	2.0	28	16.7																		3.17	—	0.73	6	24	0	0	0
Ronville	45 15	78 57	1038					30.1	—	4	62.0	11	3.0	21	15.7																		5.50	—	1.31	12	18	1	[illegible]	[illegible]
Renfrew	45 26	76 39	416					29.2	−4.1	22	61.0	11	2.0	17	14.6																		3.00	+0.60	0.60	18	12	1	[illegible]	[illegible]
Stonecliffe (Rockliffe	46 9	78 6	557	29.90	30.39	29.02	1.37	26.7	−2.6	22	60.0	12	1.0	17-22	16.5					2	0	4	1	0	0	15	0	38	60				2.11	−0.10	0.46	11	19	[illegible]	0	[illegible]
Southampton	44 30	81 21	656	29.94	30.53	29.16	1.37	34.7	−2.2	35	70.0	12	12.1	22	12.6			9	17	8	3	1	11	16	9	4	7	1	60				3.69	+1.41	0.62	22	8	[illegible]	0	[illegible]
*Sarnia	42 59	82 21	586																																					
Stratford	43 23	81 0	1191					31.6		16	62.0	12	11.0	22	12.0																		3.98	+0.55	1.48	17	13	[illegible]	0	[illegible]
Stoney Creek	43 13	79 45	292					36.6	−2.7	27	68.0	12	16.0	22	13.7			7	14	6	9	9	3	1	15	30	17	0	90	iii	x	12 w	2.51	−0.53	1.[illegible]	9	21	[illegible]	0	1
Schreiber	48 50	87 15						22.2	—	9	45.2	10	−9.2	28	20.2																		3.06	—	0.46	11	19	[illegible]	0	[illegible]
Shelburne	44 5	80 47						29.5	—	3	61.5	12	6.0	22	12.4																		4.[illegible]	—	1.00	16	14	[illegible]	0	1
Scarboro Jct.	43 44	79 13						33.3	—	2	59.0	10-11	10.0	17	13.4																		3.25	—	1.02	8	22	0	0	0
Toronto	43 40	79 24	350	29.97	30.55	29.26	1.29	35.9	−1.5	70	62.3	10	17.6	17	13.0					4	3	6	2	2	8	23	9	3	60				[illegible].83	+1.[illegible]	1.[illegible]	17	13	0	0	2
Uxbridge	44 5	79 58	886					30.9	—	6	59.0	11	5.0	22	12.6																		3.[illegible]		[illegible].70	11	19	[illegible]	0	0
Uplands	45 48	79 25						26.6	−5.4	26	60.0	12	−1.0	16	18.9					10	0	4	1	12	0	25	0	8	60				4.20	+[illegible].54	0.[illegible]	18	12	[illegible]	1	0
Ursa	44 54	78 18						31.4		3	50.0	5	−4.0	22	11.6																		5.58		1.00	9	21	[illegible]	0	0
White River	48 35	85 16	1252	29.87	30.42	29.12	1.30	17.7	−4.8	23	38.0	3-10	−22.0	16, 21	17.9					9	2	2	2	3	1	9	5	27	60				4.0[illegible]	+2.26	1.[illegible]	10	20	[illegible]	[illegible]	0
Woodstock	43 8	80 47	980	29.94	30.57	29.30	1.27	33.1	−2.2	39	64.5	12	7.0	22	15.7		79	9	21	1	2	1	18	4	26	21	17	0	90	13.2	28.0	12, 18 SW	5.45	+0.[illegible]2	1.[illegible]	14	16	[illegible]	0	0
Welland	42 59	79 17	577					35.7	−1.3	25	64.0	11, 12	16.0	13, 22	12.1																		2.74	−0.46	0.46	1[illegible]	17	[illegible]	0	0
Windsor	42 20	83 4	625					36.1		37	65.0	13	14.0	13	12.3																		4.08	+1.4	0.88	10	20	0	[illegible]	0
Wallaceburg	42 35	82 24						—	—	6	—	—	—	—	—																		3.71	—	0.66	13	17	0	0	0
Quebec—																																								
Abitibi	48 33	79 22						19.2	−5.0	16	52.0	12	−15.0	22	14.1			9	18	12	1	22	0	10	11	27	4	0	90	iii	v	13 w	3.45	+1.55	0.60	12	18	0	0	0
*Anticosti, E. Pt	49 6	61 42	30																																					
*Anticosti, W. Pt	49 52	64 32	30					28.5	−1.9	29	41.0	7	10.0	27	—					21	7	13	0	12	2	14	21	0	90				3.06	—	0.70	10	20	0	0	2
Brome	45 10	72 36	678					30.2	−1.1	31	67.0	12	8.0	17-23	13.0					0	0	3	2	23	6	51	5	0	90				1.75	−1.10	0.50	7	23	0	1	[illegible]
*Bicquet	48 25	68 53						28.3	—	30	52.0	12	11.0	30	—					21	16	0	4	8	2	19	17	3	90				5.60	+2.46	1.20	13	17	0	0	2
Clarke City	50 10	66 25																																						
*Cape Chatte	49 6	66 45						26.9	−4.9	30	41.0	12	14.0	30	—					14	4	11	0	0	3	41	3	14	90				1.15	—	0.40	5	25	[illegible]	0	1
*Cape Magdalen	49 16	65 20	93					27.6	−2.9	30	47.0	7	9.0	27	—					12	1	4	5	15	4	4	37	8	90				6.68	+3.78	1.10	14	16	1	0	0
Chicoutimi	48 25	71 5	150					25.0	−1.1	32	50.4	13	2.9	30	11.6			8	11	0	13	0	30	0	47	0	0	0	90	iv	viii	12 se	2.22	+0.51	0.50	10	20	1	0	0
Chicoutimi (2)								25.3	—	1	51.0	12	3.0	29-30	11.4																		2.20	—	1.00	4	26	[illegible]	0	0
Cap Rouge	46 46	71 18						26.7	—	1	52.0	13	7.2	26	11.9																		4.79	—	[illegible].68	17	13	0	0	0
D'Israeli	45 55	71 21						28.6	—	1	64.0	13	5.0	23	14.9																		2.28	—	0.75	10	20	0	1	1
Father Point	48 31	68 19	20	29.83	30.47	28.99	1.48	27.9	−1.5	34	62.7	13	8.6	27	12.9					8	2	5	4	10	8	10	11	2	60				2.60	−0.24	0.50	18	12	0	0	0
Lake Edward	47 39	72 15	1333					21.3	—	2	55.8	13	−9.5	30	14.9																		3.24	—	1.13	15	15	0	0	0
La Tuque	47 35	72 50	530					23.9	—	1	56.0	13	−2.0	30	15.2																		2.02	—	0.36	9	21	0	0	0
Montreal	45 30	73 35	187	29.96	30.41	29.09	1.32	31.9	−1.2	37	61.6	12	10.0	12	11.4					4	1	4	5	10	15	15	6	0	60				3.12	−0.32	0.58	12	18	[illegible]	1	0
Perkin's Mills	45 38	75 38																																						
Quebec	46 48	71 12	296	29.89	30.44	29.04	1.40	28.0	−1.8	37	56.5	12	9.5	30	12.0			8	14	0	17	3	0	3	20	9	7	1	60				3.95	+0.88	0.82	18	12	1	0	1
Roberval	48 31	72 13	352																																					
St. Anne de Bellevue	45 27	73 5[illegible]						31.7	—	6	65.0	12	7.0	17	10.4																		2.52	—	0.42	9	21	0	0	0
Shawinigan Falls	46 34	72 43						25.8	—	10	60.0	12	1.0	23	14.2																		4.90	—	1.13	13	17	0	0	0
Sherbrooke	45 32	72 5	620					30.6	—	9	65.0	13	9.4	17	13.9																		3.75	—	0.83	19	11	0	0	0

New Brunswick—																																									
Chatham	47	3	65	29	21	29.86	30.56	28.90	1.66	30.7	−2.0	37	61.5	13	7.5	26	15.4		6	7	4	5	7	4	0	12	16	11	1	60				4.48	+0.66	1.20	13	17	0	0	0
Dalhousie	48	4	66	22	39					28.0	−0.5	35	46.0	8	7.0	26	11.2				0	0	5	3	0	1	18	1	2	30				3.60	—	1.20	5	25	0	0	0
Fredericton	45	57	66	36	164	29.91	30.56	29.02	1.53	30.5	−2.0	36	60.5	13	6.8	26	17.3	86	7	7	3	4	7	7	3	12	29	19	6	90	10.5	27.3	17 NW	5.10	+1.07	1.40	11	19	0	1	0
Grand Manan	44	47	66	46	49	29.92	30.48	29.05	1.43	38.7	−0.1	26	61.0	17	18.0	26	16.2		6	2	5	5	6	3	1	7	14	17	2	60				4.47	−1.13	1.05	13	17	0	0	0
Moncton	46	9	64	45	50					31.1	−3.4	14	64.0	12	10.0	25	17.6				1	3	3	3	1	2	2	15	0	30				2.90	−0.36	0.70	9	21	0	0	0
*Point Lepreaux	45	4	66	28	30					36.3	−1.2	33	52.0	7	19.0	25	—		6	7	8	8	3	6	2	10	16	25	0	78	IV	VI	15 SW	4.10	+0.45	1.00	9	21	0	0	0
St. John	45	17	66	4	70	29.89	30.53	29.00	1.53	35.5	−1.2	37	58.4	13	16.0	26	13.5		6	6	7	5	2	4	2	13	6	19	2	60				4.82	+0.11	1.19	9	21	0	0	0
St. Stephen	15	11	67	16	35					33.8	+0.4	14	63.0	12	6.0	26	15.7																	3.79	+0.43	1.15	8	22	0	0	0
Sussex	15	38	65	38	69					33.8	−0.4	14	63.0	13	9.5	26	20.0				0	1	1	0	1	3	6	1	17	30				4.31	+0.58	1.85	6	24	0	0	0
Nova Scotia—																																									
Antigonish	45	38	61	59	50						—	1																						—	—	—	—	—	0	0	0
Halifax	14	39	63	36	88	29.88	30.51	28.90	1.61	37.7	−2.0	36	58.8	13	19.3	26	15.0				3	9	2	2	4	6	14	19	1	60				9.83	+3.95	2.65	18	12	0	0	1
Port Hastings	15	39	61	22	45							20									1	5	0	3	0	5	0	16	0	30				3.78	−0.42	0.95	6	21	0	0	0
Parrsboro'	45	23	64	19	40					34.9	−2.9	15	59.0	7	15.0	3-29	14.5																								
Sydney	46	10	60	10	35	29.85	30.55	28.79	1.76	37.1	−1.8	38	59.5	13	15.5	28	14.2		8	14	2	3	2	1	1	13	20	13	5	60				8.52	+3.08	2.18	14	16	0	0	0
*Sable Island, E. Pt	13	58	59	46	25					44.8		28	59.0	7	33.0	3-26	—				0	14	0	20	2	15	0	39	0	90				5.21	—	1.51	9	21	0	0	0
Truro	45	22	63	18	77					35.4	−0.7	36	60.5	13	11.2	4	18.0				4	9	10	6	9	19	19	7	7	90				6.67	+2.42	1.37	16	14	0	0	1
Windsor	44	59	64	6	90					36.7	—	9	61.0	8-13	16.0	26	11.7																	5.41	—	0.93	15	15	0	0	0
*Whitehead	45	15	61	8	20					37.6	−2.5	28	52.0	1	22.0	26	—																	7.15	+2.76	2.00	10	20	0	0	1
aWolfville	15	7	64	20		29.81	30.45	28.88	1.57	36.0	−1.0	12	62.8	13	16.8	23	16.4				7	3	4	2	4	7	10	17	6	60				3.20	−0.84	0.83	9	21	0	0	1
Yarmouth	43	50	66	2	65	29.93	30.49	29.13	1.36	40.1	−0.1	31	59.0	13	24.4	28	13.3				8	3	6	4	5	4	14	10	6	60				6.28	+1.30	1.39	16	14	0	0	1
P. E. Island—																																									
Charlottetown	46	14	63	10	38	29.85	30.53	28.86	1.67	34.3	−1.7	36	56.0	13	14.0	27	12.2				4	3	2	5	5	13	7	19	2	60				5.57	+1.17	1.15	16	14	0	0	0
Charlottetown (2)	46	14	64	7	75					33.7	—	2	58.5	13	13.0	27	13.3																	5.66	—	1.34	16	14	0	0	0
Hamilton	46	25	63	48																																					
Newfoundland—																																									
*Amour Point	51	28	56	51																																					
Burin	47	0	55	10	27	29.81	30.52	28.66	1.86	35.6		3	53.0	8	9.0	28	19.6				8	3	1	3	9	14	6	16	0	60				7.61	—	1.62	18	12	0	0	0
*Cape Norman	51	38	55	52																																					
Fogo	49	43	54	17	30	29.76	30.51	28.29	2.22	32.9		2	52.0	8 25	18.0	15	10.0				7	6	0	2	4	9	11	15	0	54				7.96	—	2.00	16	14	0	0	0
*Point Rich	50	42	57	25	35					30.9		27	49.0	13	11.0	30	—				11	5	8	6	9	21	8	22	0	90				0.61	−3.90	0.50	5	25	0	0	0
Port aux Basques	47	35	59	10	27	29.78	30.51	28.86	1.65	33.3	—	2	48.0	13	14.5	28	10.0				9	1	5	5	4	4	16	13	3	60				8.91	—	1.73	25	5	0	0	1
St. John's	17	34	52	42	125	29.71	30.44	28.56	1.88	35.2	−2.4	37	55.0	8	20.0	28-29	12.4		6	6	2	3	0	3	3	26	8	14	1	60				7.74	+1.70	2.12	14	16	0	0	0
Bermuda—																																									
Prospect	32	17	64	46	151	30.13	30.35	29.71	0.64	69.3	+1.1	20	80.0	1	58.6	28	9.9				9	10	6	5	11	5	1	13	0	60				7.00	+2.68	2.44	16	14	0	4	

Precipitation at Stations reporting Rain, Snow, Weather, &c., during November, 1911.

Stations	Rainfall					Snowfall				Remarks
	Amount in inches	No. of Days .01 or over	No. of Fair Days	Heaviest Fall in Month	Date	Amount in inches	No. of Days	Heaviest Fall in Month	Date	
British Columbia—										
Atlin Lake	0 71	4	19	0 38	24	2 5	7	2 5	6	
Aspen	3 18	12	10	0 88	7	2 0	8	2 0	14	
Beaver Lake	4 58	14	14	1 00	11-14	11 4	2	11 0	11	
Coquitlam	12 01	15	14	1 46	17	0 3	1	0 3	8	
Denman's Island	3 00	12	16	0 51	20	20 0	2	20 0	13	
Ferguson	0 10	1	16	0 10	18	80 0	13	15 0	14	
Gold Stream Lake	11 24	29	6	2 23	12	11 5	4	4 0	8	
Hydraulic	0 38	1	19	0 38	4	31 3	10	8 5	5	
Hornby Island	4 01	9	20	1 25	2	24 0	1	24 0	12	
Jordan River	18 91	29	8	4 92	18	8 5	2	5 5	8	
Jordan River, Bear Creek	19 59	18	6	3 88	17	16 9	6	5 4	12	
Little Qualicum (French Creek A 1	4 58	9	19	1 56	19	21 0	2	20 0	12	
Monte Creek	0 44	3	23	0 40	6	15 0	4	9 0	13	
Nass Harbour										
Skidegate										
Shawnigan Lake	4 76	17	9	1 34	13	30 0	4	19 0	12	
Alberta—										
Bardo						4 0	3	2 0	8	
Bismark	0 24	1	26	0 24	3	4 6	3	1 0	8	
Bruederheim	0 08	1	24	0 08	4	5 0	5	1 0	6-16	
Bittern Lake	0 09	1	24	0 09	4	3 5	5	0 8	7	
Brooks	0 12	1	23	0 12	4	11 5	6	4 0	7	
Conjuring Creek										
Cluttts										
Carapoe	0 11	1	24	0 11	4	3 9	5	1 3	21	
Cardwell						29 3	6	14 0	8	
Dorenlee	0 30	1	27	0 30	1	4 5	2	4 0	10	
Dunstable	0 07	1	18	0 07	3	5 1	11	1 2	6	
Grassy Lake	0 55	2	21	0 30	7	5 0	1	2 0	12	
Jumping Pound										
Lacombe										
Loch Sloy	0 02	1	25	0 02	5	6 5	4	3 5	8	
Lyndon	0 56	1	27	0 56	4	5	2	0 3	10	
Lyncham						2	1	1 2	7	
Macleod						11 3	8	4 0	26	
Manola (Many Berries Ranch)										
Meyercroft	0 02	1	21	0 02	18	19 0	5	12 5	8	
Nalehy						0 3	4	0 2	9	
Okotoks	0 75	1	28	0 75	4	3 0	1	3 0	7	
Pekisko						13 3	8	4 3	8	
Ponoka	0 12	1	26	0 12	6	8 0	3	4 0	7	
Priddis										
Playle Creek						11 0	3	6 0	8	
Soon	0 15	2	21	0 08	3	11 5	7	5 0	6	
Seven Persons						12 5	3	12 5	7 9	
Tilley										
Saskatchewan—										
Carmichael										
Coutts										
Elm Bow										
Forks Swift Current Gull Lake										
Gull Lake						19 0	4	8 0	3	
Gravelbourg										
Hanley										
Kindersley										
Last Mountain										
Maple Creek	0 01	1	22	0 01	5	10 2	7	4 0	8	
Meadow Lake						6 8	2	4 5	5	
Willow Creek	0 03	1	27	0 03	3	6 0	2	3 5	14	
Manitoba—										
Cartwright						10 0	5	3 5	10	
Deloraine						10 3	6	3 3	19	
Gretna										
Norquay (Swan Lake						8 0	1	4 0	11	
Rapid City						8 9	5	5 1	9	
Rose Bank	..	..								
Ontario—										
Deer Park	3 23	6	20	0 97	7	1 0	4	1 5	15	
Dutton	2 09	4	24	1 25	6	15 0	2	9 0	1	
Emsdale	3 29	8	13	1 50	7	15 8	9	4 0	26	
Georgetown	3 09	8	15	0 97	6	8 9	7	4 0	17	
Grantham	1 74	8	18	0 59	18	4 6	4	2 5	21	
Grand Valley	2 63	7	17	1 09	7	9 0	6	3 0	19	
MacCrae	1 70	7	20	0 52	6	7 0	3	3 0	14	
Orangeville	3 29	6	16	0 72	7	12 4	8	4 8	17	
Princeton										
Sydenham	4 05	6	20	1 70	17	10 0	4	4 0	14	
Strathroy	3 88	7	14	1 08	6	18 0	9	5 5	2	
Watford	4 13	6	24	1 22	6					
Westport	1 88	6	19	0 82	6	8 6	5	2 5	14	
Westminster	3 42	4	22	1 46	7	17 0	4	6 0	15	
Wooler	2 75	7	21	0 98	6	4 0	2	2 0	3-14	
Wesley	3 37	6	15	1 07	7	23 5	9	7 0	19	
Quebec—										
Kepawa										
Lucerne										
Perkins Mills	2 56	6	21	1 35	6	1 3	3	0 7	14	
Quinze Dam	2 75	3	18	1 60	12	21 5	9	8 0	18	
Timiskaming	2 24	4	20	1 09	11	16 5	6	4 0	17	
New Brunswick										
Point Escuminac	1 28	5	21	0 47	7	8 3	4	3 1	25	
Nova Scotia—										
Big Mushamush Lake (Mahone)	6 42	3	26	3 50	15	5 0	1	5 0	30	
Kentville	4 10	8	17	0 86	19	5 8	5	3 5	22	
Kedgemakooze Lake, New Grafton	4 18	7	20	1 55	25	6 0	3	2 5	3	
Liverpool, Indian Gardens										
Milton	9 31	9	21	2 18	7					
Mushamush River, Mahone	6 25	3	26	3 45	15	4 0	1	4 0	30	
South Alton	8 45	9	21	2 00	18					
White Rock	4 95	7	23	1 03	18					

MEAN PROPORTION OF BRIGHT SUNSHINE REGISTERED IN EACH HOUR OF THE DAY IN THE MONTH OF NOVEMBER, 1911.

STATION.	Hours Ending														
	7 a.m.	8 a.m.	9 a.m.	10 a.m.	11 a.m.	Noon	1 p.m.	2 p.m.	3 p.m.	4 p.m.	5 p.m.	6 p.m.	7 p.m.	8 p.m.	
Victoria	....		.13	19	27	27	29	31	26	18	02				
Salmon Arm		.01	08	21	27	39	40	31	23	15	....				
Nanaimo				04	15	14	18	13	12	08	T				
Vancouver		01	11	17	17	17	20	23	19	12	02				
Agassiz			05	18	31	26	17	10	11	09					
Tranquille		08	23	32	38	49	48	41	16	05					
Summerland		07	17	24	35	42	39	36	30	09					
Kamloops			07	28	47	45	40	39	36	06					
Edmonton		02	30	56	61	59	58	52	40	19	01				
Lethbridge		11	40	48	46	40	35	33	33	28	05				
Lacombe		02	13	23	30	35	41	35	34	28	11				
Medicine Hat			17	37	51	53	51	17	40	17					
Fort Dunvegan			03	17	28	42	47	49	41	09					
Fort Vermilion			08	36	49	59	56	30	04						
Battleford		10	38	59	63	61	56	44	32	22	02				
Indian Head		01	15	32	46	54	57	57	54	24	02	01			
Moosejaw	03	37	53	57	56	57	54	54	40	07					
Scott		09	37	42	47	46	47	48	32						
Rosthern		19	42	56	56	60	56	55	51	36	05				
Brandon	T	23	58	56	61	66	62	50	43	21	02				
Winnipeg		04	29	40	47	56	54	47	43	41	17				
Haileybury		05	13	13	18	16	19	25	15	12	06				
Woodstock		02	08	22	27	38	35	33	30	20	05				
Lindsay			10	27	30	31	32	32	35	29	13	02			
Barrie		06	24	26	30	28	28	27	25	14	....				
Toronto		03	18	25	31	43	48	41	31	26	05				
Kingston		02	11	22	26	33	33	33	28	30	17	01			
Ottawa		05	25	34	33	41	36	38	30	24	05				
Montreal		01	16	31	34	33	37	33	30	24	03				
Cap Rouge		06	23	24	22	22	29	25	21	13	03				
Quebec		02	23	26	26	28	36	34	30	20	07				
Sherbrooke		04	23	24	25	25	26	25	24	13	T				
Fredericton		08	26	45	45	52	47	49	37	22	11				
Charlottetown		08	23	27	22	25	26	27	27	23	13				

	Victoria.	Salmon Arm.	Nanaimo.	Vancouver.	Agassiz.	Tranquille.	Summerland.	Kamloops.	Edmonton.	Lethbridge.	Lacombe.	Medicine Hat.	Fort Dunvegan	Fort Vermilion	Battleford.	Indian Head.	Moose Jaw.	Scott.	Rosthern.	Brandon.	Winnipeg.	Haileybury.	Woodstock.	Lindsay.	Barrie.	Toronto.	Kingston.	Ottawa.	Montreal	Cap Rouge.	Quebec.	Sherbrooke.	Fredericton.
Registered duration in hours	59	62	26	42	38	78	72	74	113	96	75	94	71	89	116	104	125	106	131	133	113	43	66	73	63	82	71	81	73	57	70	57	102
Percentage of possible duration	21	23	9	15	14	29	27	28	44	35	29	35	29	38	45	39	46	41	50	49	42	15	23	25	22	28	25	29	28	20	24	20	36
Difference from average %	+0				−5											+11	+15			+17	+7		−3	−0	+ 2	−1	−2	+1	−2				+4
Maximum percentage in one day	85	73	62	89	57	80	93	72	96	96	97	82	81	89	95	87	92	98	98	89	96	97	91	77	68	84	90	96	89	79	80	77	88
Date of maximum	21	27	4	21	1	20	1	20	17	11	1	22	1	29	1	1	11	19	2	2	17	3	3	1	3	16	22	3	3	17	13	5	20
Number of days completely clouded	13	14	22	15	18	11	9	9	5	5	8	6	11		6	7	5	9	5	3	10	15	15	13	11	7	13	9	10	11	12	15	10

Transcribed.

When the class of meteor is noted by the observer, it is given (I), being the brightest, (IV) the feeblest in brilliancy.

1. Treherne III, Fort Qu'Appelle IV.
2. Aweme III, Aitkensville III, Muenster I.
3. Aitkensville III, Quebec IV, Fort Vermilion III, Fort Qu'Appelle IV.
4. Chicoutimi, Aitkensville III.
5.
6.
7.
8.
9.
10.
11. Sion, Fort Qu'Appelle IV.
12. Schreiber IV, Hillview I, Aweme II, Treherne III, Aitkensville III, Fort Vermilion I.
13. Kakabeka Falls IV, Schreiber III, Waitefield IV, Carcross (Brilliant), Aitkensville IV, Minnedosa II, Muenster III, Fort Qu'Appelle IV.
14. Schreiber IV, Hillview I, Treherne IV, Sion IV, Aitkensville IV, Waseca, Prince IV, Muenster IV, Melfort IV, Fort Vermilion.
15. Sion IV, Aitkensville IV, Minnedosa III, Yellow Grass, Fort Qu'Appelle IV.
16. Sion IV, Waseca, Oliver.
17. Sion IV.
18. Sion, Prince II, Gatesgarth III.
19. Waitefield IV, Oliver.
20.
21. Sion, Prince IV.
22. Prince IV.
23. Sion.
24. Waitefield IV, Sion, Fort Vermilion III.
25. Hillsdown IV, Waitefield IV, Sion, Aitkensville IV, Waseca.
26. Waitefield IV, Aweme IV, Sion, Campsie IV.
27. Sion, Gravenhurst I, Aitkensville IV, Cape Magdalen.
28. Sion.
29. Sion.
30. Sion, Aitkensville IV.

Thunder recorded:—

1.
2.
3.
4.
5.
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7.
8. Fredericton.
9.
10. Quinze Dam.
11. Porcupine, North Bruce, Copper Cliff, Paris, Montreal River, Elora, Bruce Mines, Westport, Uplands.
12. Montreal River, Brome, D'Israeli, Montreal, Parry Sound.
13.
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FORECASTS FOR NOVEMBER, 1911.

The forecasts issued by this office at 11 p.m. each night are posted up at every telegraph station in Canada, and are for the 24 hours beginning at 8 a.m. the following day.

The number of these predictions issued during the month was 1333. These were divided as follows:—

District.	No. Issued.	Verified.			
		No. Fully.	No. Partly.	No. Not.	Per-centage.
Alberta	79	61	12	3	88.6
Saskatchewan	81	63	15	3	87.0
Manitoba	87	71	11	5	87.9
Lake Superior	119	94	22	3	88.2
Georgian Bay	130	108	17	5	89.6
Ottawa Valley	108	81	19	8	83.8
Upper St. Lawrence	108	86	17	5	87.5
Lower Lake Region	131	105	22	4	88.5
Lower St. Lawrence	123	93	27	3	85.3
Gulf	120	91	27	2	87.1
Maritime Provinces West	123	81	37	5	80.9
Maritime Provinces East	124	92	26	6	84.7
Total	1333	1029	252	52	86.6

In order to obtain the percentage of verification of the predictions, the number partly verified is divided by two and added to the number fully verified, and the result divided by the total number issued.

In ascertaining to what extent the predictions have been verified, the reports from the agents at all observing stations, as well as the telegraphic reports, are used.

R. F. STUPART, Director.

Meteorological Office, Toronto,
December 21, 1911.

DEPARTMENT OF MARINE AND FISHERIES, CANADA.
METEOROLOGICAL SERVICE.

Monthly Weather Review

VOL. XXXV. DECEMBER, 1911 No. 12.

INTRODUCTION.

In compiling the present Review the principal data made use of are the telegraphic reports of observations received at this office for the purpose of weather forecasting and reports by mail from voluntary observers and storm signal agents. For the data used in tracing the paths of areas of high and low pressure in the United States, we are indebted to the Chief of the Weather Bureau, Washington, D. C.

TEMPERATURE.

BRITISH COLUMBIA.

On the Upper Fraser and in the Cariboo region of British Columbia temperatures below zero were recorded on the 17th, 23rd, 28th, 29th, 30th and 31st; 19° below, 20° below and 30° below were the lowest temperatures registered respectively at Chilcotin, Barkerville and Quesnelle. In the Okanagan Valley the last three days were very cold, but temperatures below zero were recorded on the 31st only. In the Kootenays, however, and on the north branch of the Columbia, on the majority of the days of the last week minimum readings were below zero at many stations. Along the Lower Fraser minima ranged from 10° to 20°.

The mean temperatures were lower than the average except over a small part of Vancouver Island and a portion of the coast of the mainland. In the extreme southwest the difference from average amounted to more than 5°, and in the Cariboo region to more than 3°.

THE WESTERN PROVINCES.

In Alberta mean temperatures in the mountains were about 6° below average, and in the northwestern portion of the province about 3°. At Medicine Hat and Calgary temperature conditions were normal, while in the eastern portion there was an excess over average of about 1°.

In Central and Southeastern Saskatchewan the mean temperatures were from 2° to 4° above average, while at Prince Albert and Battleford and the regions north of those towns they ranged from 1° above to 1° or more below normal.

In Northwestern Manitoba the excess over average temperature was barely 1°, but this increased to 5° in the eastern districts.

The first part of the month was very mild throughout the Western Provinces but a severe cold wave which was first felt in Alberta and Saskatchewan about the 21st and in Manitoba about the 20th kept the temperatures below zero till after the close of the month. At several places the highest temperatures recorded on the 28th were 30° below zero, and temperatures as low as 50° below were recorded in the northern localities.

ONTARIO

Throughout the Province of Ontario mean temperatures were very high, exceeding the normal each by from 5° to 11°, the greatest differences from average occurring in the Lake Temiskaming district. On the 3rd and 4th temperatures from 5° to 10° below zero were recorded in the Georgian Bay counties and in northeastern Ontario. In the Lake Superior districts weather of similar severity to that experienced in Manitoba during the last week of the month obtained at the same time. From the 9th to the 12th the weather in the southern counties was exceptionally mild, maxima ranging from 55° to 58°.

QUEBEC

In the Abitibi region, and at Montreal, and in the "Eastern Townships" the differences from normal temperature were very large. There was an excess over average throughout the Province of Quebec ranging from 10° at Montreal and Brome to 5° in the Gulf of St. Lawrence. In this province, also, the temperatures were exceptionally high from the 9th to the 12th, maxima ranging from 55° to 58° in the western counties. On the 4th and 5th, the 20th and 30th and 31st, temperatures were considerably below zero in many districts. At Lake Edward the lowest recorded was 22° below and at Quebec City 8° below.

THE MARITIME PROVINCES.

Mean temperatures exceeded the average by from 1° to 8° in New Brunswick and by 4° in Prince Edward Island. In Nova Scotia, however, the range of difference from normal was from 0.5° to 3°. Minima of zero or slightly below were recorded at some places in New Brunswick on the 21st and 31st, but in Nova Scotia and Prince Edward Island no severe cold was experienced.

The highest and lowest temperatures recorded in each Province during the month of December, 1911, were:

	HIGHEST.		LOWEST.	
British Columbia	59	at Kamloops on the 7th.	—10	at Fort St. James on the 29th.
Alberta	65	at Alix on the 3rd.	—59	at Fort Vermilion on the 28th.
Saskatchewan	47.4	at Maple Creek on the 5th,	—51	at The Pas on the 29th.
Manitoba	45	at Ninette on the 9th.	—50	at Swan River on the 29th.
Ontario	63	at Stoney Creek on the 8th.	—30	at Kenora and White River on the 29th.
Quebec	57.5	at Ste. Anne de Bellevue on the 11th.	—23	at Abitibi on the 30th.
New Brunswick	59	at St. Stephen on the 12th.	— 7.5	at Chatham on the 31st.
Nova Scotia	62.5	at Wolfville on the 13th.	3	at Pt. Hastings on the 29th.
P. E. Island	53	at Charlottetown on the 12th.	7	at Charlottetown on the 29th.

ATMOSPHERIC PRESSURE.

The mean value of the atmospheric pressure for December exceeded the normal throughout Canada, except in Central and Northern British Columbia, and over the greater part of Alberta, where the average was not reached. Positive departures from average were nearly 0.10 of an inch in the Maritime Provinces, and somewhat less elsewhere. Negative differences in British Columbia and Alberta were from 0.03 to 0.07 of an inch. Extremes of differences from normal at the telegraph stations were —0.07 of an inch at Kamloops, B.C., and +0.10 of an inch at Yarmouth, N.S.

LOW AREAS.

Fourteen areas of low pressure were charted, six first appeared on the far northern British Columbia coasts and Alaska, one on the north Pacific United States coast, four in the vicinity of the west coast of the Gulf of Mexico, one in Southern Saskatchewan, one over Lake Superior, and one in Northern Maine. Five areas passed north of the Great Lakes, four over them and two to the southward. Some few of the systems were very energetic, chiefly during the latter half of the month, but as a whole they were not important, and strong winds and gales were not as prevalent as in the preceding month of November.

HIGH AREAS.

Six areas of high pressure were charted. One appeared in the Yukon Territory, one to the northward of Manitoba, and four on the United States Pacific Coast. One area passed north of the Great Lakes, two over and three south of the Great Lakes. The areas from the Pacific were remarkable for the persistency with which they hovered over the Pacific States, while the area which appeared in the Yukon Territory on the 25th, and subsequently spread over the larger portion of the continent, caused winter weather to set in generally over the Dominion after a long period of unusually mild conditions.

PRECIPITATION.

On Vancouver Island there was a marked deficiency of rainfall, amounting to more than half of the normal amount. Over the mainland of British Columbia, however, there was, generally, no lack. In Central Saskatchewan, Alberta and Manitoba less than the normal amount was recorded. In the Georgian Bay counties of Ontario, and also in some eastern districts, the deficiency was considerable, while in other parts of the same province there was a small excess. Along the River St. Lawrence there was a small excess, but elsewhere in Quebec less than average precipitation occurred. In the Maritime Provinces there was a general and pronounced deficiency.

DEPTH OF SNOW ON THE GROUND.

At the close of the month the ground was snow-covered from Alberta to Northern New Brunswick, with the exception of a few scattered localities, principally in the extreme southwest counties of Ontario. The depth on the ground was generally from 2 to 4 inches, but in the Gaspé Peninsula, the western part of Algoma, and in Keewatin over 20 inches were reported.

THICKNESS OF ICE.

Thickness of ice was reported as follows:

Western Provinces.—Battleford, 20 inches; Swift Current, 20; Moose Jaw, 23; Qu'Appelle, 16; Minnedosa, 18; The Pas, 14.

Ontario.—Port Arthur, 4.5 inches; Cochrane, 7; Southampton, 2; Port Stanley, 2; Ottawa, 5; Georgetown, 3; Clinton, 2½.

Maritime Provinces.—Chatham, 6 inches; Fredericton, 9; Sydney, 5; Charlottetown, 3; St. Stephen, 9; Sussex, 6; Point Le Preaux, 3.

WINDS, DECEMBER, 1911

PROVINCES AND STATIONS.	Total Mileage.	Greatest Mileage in 24 hours.	Greatest Mileage in one hour.	Number of days of Gales.	Number of days of Strong Winds.	Number of days of Fresh Winds.	General Direction.
British Columbia.							
Victoria	6310	404	34	3	7	12	E.
Point Garry	6571	506	38	5	5	9	E.
Alberta.							
Edmonton	3714	341	18	.....	2	3	SW. & NW.
Calgary	3661	343	23	.....	2	4	W. & NW.
Saskatchewan.							
Battleford	4835	491	26	.....	4	7	SE.
Prince Albert	1948	116	8	.....	.....	.....	SE.
Qu'Appelle	6782	441	25	.....	8	6	SE. & SW.
Manitoba.							
Winnipeg	6814	402	32	1	6	11	SW. & W.
Ontario.							
Port Arthur	6758	423	30	1	8	7	NW.
Parry Sound	6506	458	33	1	5	5	SW.
Southampton	10154	678	43	3	11	7	S.
Woodstock	7749	610	34	2	7	5	SW.
Toronto	11247	896	47	6	14	5	SW. & W.
Quebec.							
Quebec	11631	725	43	11	8	5	NE. & SW.
Father Point	12597	866	50	13	9	5	W.
Maritime Provinces.							
Fredericton	6854	775	41	4	4	4	NW.
St. John	10516	1071	55	6	1	6	NW.
Point Lepreaux	14628	1190	56	14	10	5	N.
Halifax	9374	780	41	5	11	4	N. & NW.
Flat Point	15116	1092	57	19	11	2	N. & NW.
Charlottetown	5855	480	25	.....	6	8	NW.

DEPARTMENT OF MARINE AND FISHERIES, CANADA :—METEOROLOGICAL SERVICE.

PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA, DECEMBER, 1911

a Barometer not reduced to Sea Level. *Stations not furnished with Registering Thermometers.

STATION.	Latitude N.	Longitude W.	Elevation above sea level, in feet	Pressure: Mean reduced	Pressure: Highest	Pressure: Lowest	Pressure: Range	Temperature: Mean	Temperature: Difference from average	Temperature: Yr's Observations	Temperature: Highest	Temperature: Date	Temperature: Lowest	Temperature: Date	Temperature: Mean daily range
British Columbia—															
Alberni (Beaver Creek)	49 15	121 49	300	..	..			36 5	+ 2 1	16	49 0	11	21 0	31	8 2
Agassiz	49 14	121 31	52					39 2	− 2 1	21	53 0	6	10 0	30	13 6
Atlin	59 35	133 38	2210	29 78	30 59	29 13	1 46	19 1	.	6	42 0	12	−18 0	28	7 6
Akamina	..	...						...	...			..			
Barkerville	53 2	121 35	4180	29 91	30 36	29 27	1 09	18 9	− 3 7	23	40 0	2-3	−20 0	31	10 8
Bella Coola	52 40	126 51	150					30 9	− 1 0	13	44 0	12	9 0	28 31	7 1
Babine Lake	55 38	126 26	.									..	..	...	
Boswell	49 19	116 41													
Chilcotin (Big Creek)	51 40	123 0	3100					18 0		8	47 0	1	−19 0	29	22 3
Cranbrook	49 30	115 50						20 8		3	43 0	19	−27 0	31	19 1
Clayoquot	49 11	125 47	40					40 7	− 2 4	12	53 0	11	25 0	31	10 3
Cowichan (Tzouhalem)	48 25	123 42	170					40 0		5	53 0	11	25 0	21	9 0
Chilliwack	49 10	121 57	21					37 0		9	54 0	22	16 0	30	6 7
Crawford Bay	49 45	116 45	2000					27 8		2	41 0	10	6 0	29	8 6
Enderby	50 32	119 7	1180					25 4		8	40 0	5	−19 0	31	13 8
Fort St. James (Stuarts Lake)	54 28	124 12	2280					19 3		10	45 0	3	−40 0	29	21 0
Fairview	49 11	119 36						13 0	....	3	40 0	1	− 1 0	18 19	18 2
Fruitvale	49 9	117 31													
Glacier	51 14	117 29	4072					17 7		9	31 0	14	−13 0	31	8 0
Golden	51 16	116 55	2550					15 5		10	37 0	8-20	−33 0	31	13 1
Grand Forks	49 2	118 27	..					21 6		1	39 0	8	− 5 0	31	11.5
Greenwood	49 5	118 40													
Holberg	50 39	128 18						39 7		3	49 3	1	21 4	31	5 6
Hedley	49 35	120 10	1771					26 1		8	44 0	12	− 7 0	31	10 6
Hedley (Nickel Plate)								17 8		8	38 0	2	−10 0	29	13 0
Hope	49 23	121 25						33 5		2	47 0	8	10 0	29-30	6 6
Ikeda Bay	52 17	131 7	5												
Kamloops	50 41	120 29	1245	30 02	30 51	29 36	1.15	27 0	− 3 5	21	59 0	7	− 7 1	31	10 9
Ladner	49 5	123 4		..		.	.	40 8	.	10	53 0	11	25 0	31	8 8
Massett, Q.C.I	53 58	132 9	30					39.0	− 0 2	14	52 0	4	18 0	31	8 5
aNanaimo	49 10	123 37	125	29 95	30.48	29 33	1 15	40 2	+ 0 9	11	55.0	8	28 0	31	8.7
Nicola Lake	50 9	120 39	2120					29 5	+ 1 9	16	49 0	9	− 4 0	30	12.1
North Nicomen	49 12	122 2	59					38 1	− 0 3	18	53 0	8	17 0	30	8 6
New Westminster	49 13	122 54	330					36 9	− 1 7	24	50 5	8	20 0	31	6 8
Nelson	49 29	117 21	1760					27 6	..	8	40 0	1	5 0	31	7.5
Needles	49 40	118 9						31 7		3	40 0	24	15 0	25-31	8.7
Okanagan Mission (Kelowna)	49 52	119 29	1200					26 6	− 4 5	12	40.0	7	− 3 0	31	11 0
Princeton	49 29	120 29	1650					21 8	− 0 4	17	40 0	8	− 8 0	29	14 2
Penticton	49 29	119 35						30 5		5	45 0	1	10 0	24	9.9
Pemberton Hatchery	50 2	122 33						29 7		4	40 0	2 22	10 0	29	6 0
Prince Rupert	54 18	130 18	170	29 79	30 26	29 25	1 01	37.0		2	55 0	3	11 0	30	7 0
Quesnelle	52 59	122 30	1700					21 4	− 3 2	16	42 0	2-23	−30 0	31	14 5
Revelstoke	51 0	118 6	1476					25 6	.	12	38 0	8	− 0 5	31	7 9
Rossland	49 5	117 48	3400					23.8		8	35 0	8	− 6.5	31	6.2
Ruskin (Stave Falls)	49 16	122 23	125					40 3		3	52 0	2 3	24 0	30	11 1
Salmon Arm	50 42	119 35	1152					26 2		10	40 0	8	− 5 0	31	7 5
Salmon Arm (Ex. Farm)								25 1		1	40 0	1	0 5	31	12 3
Steveston (Garry Point)	49 21	123 17						39 8	+ 0 4	16	52 0	19-23	13 0	31	8 9
Swanson Bay	50 37	126 53						36 1		4	46 0	8	16 0	30 31	5 2
Salt Spring Island	48 50	123 20						39 2		3	50 0	9 22	26 0	31	7 7
Summerland	49 57	119 0	1100	..	....			.						..	..

STATION.	Mean temperature of dew point	Mean relative humidity	Mean amount of cloud	No. of days completely clouded	Wind from: N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.	Total number of observations	Velocity of Wind: Mean miles per hour	Highest day's velocity	Date and direction from	Precipitation: Amount	Difference from average	Heaviest fall in month	Days with .01 or more	No. of fair days	No. of [illegible]	No. of [illegible]
Alberni (Beaver Creek)																		5 10	− 4 14	0 90	22	9	0	0
Agassiz																		7 69	− 0 31	1 20	16	15	0	0
Atlin			8	12	10	3	2	6	27	0	0	0	11	62	10 6	28 0	5 13 S	1 68		0 50	12	17	3	0 6
Akamina			..			....			..							..								
Barkerville			8	15	0	0	0	1	0	5	0	0	56	62	1 3	20 0	18 28 W	3 80	+ 0 59	0 90	8	23	0	0 0
Bella Coola																		7 00	+ 1 76	1 26	16	15	0	0 3
Babine Lake																								
Boswell																								
Chilcotin (Big Creek)																		1 25	—	0 40	5	2[illegible]	0	0 2
Cranbrook																		1 10	—	0 [illegible]	2	2[illegible]	0	0 [illegible]
Clayoquot																		16 23	+ 0 15	2 45	22	9	0	0 1
Cowichan (Tzouhalem)																		4 58	—	0 65	22	9	0	0 0
Chilliwack																		7 49	—	0 66	2[illegible]	[illegible]	0	0 2
Crawford Bay																		1 60	—	0 [illegible]	11	2[illegible]	0	0 1
Enderby																		3 29	—	0 47	14	17	0	0 0
Fort St. James (Stuarts Lake)																		1 89	− 0 [illegible]	0 71	1[illegible]	18	0	0 0
Fairview																		1 [illegible]	—	0 31	[illegible]	2[illegible]	1	0 0
Fruitvale																								
Glacier																		8 55	—	1 00	17	14	0	0 0
Golden																		1 35	− 0 41	[illegible] 25	8	2[illegible]	0	0 0
Grand Forks																		2 84	—	[illegible] 57	18	13	0	0 0
Greenwood																								
Holberg																		[illegible] 56	—	[illegible]	24	7	0	0 0
Hedley																		1 40	—	0 19	13	18	0	0 0
Hedley (Nickel Plate)																		2 90	—	[illegible]	12	19	0	0 0
Hope																		6 14	—	1 09	16	15	0	0 0
Ikeda Bay																								
Kamloops		84	8	12	1	8	8	5	1	8	12	2	14	62	5 4	23 0	28 S	1 27	− 0 1[illegible]	0 [illegible]	9	2[illegible]	0	0 0
Ladner																		8 88	+ 3 85	1 20	20	11	0	0 2
Massett, Q.C.I					5	4	4	29	4	12	1	3	0	62				5 78	− [illegible] 88	0 70	25	6	0	0 0
aNanaimo		...	8	13	0	0	2	23	0	2	2	12	21	62	6 2	36 0	26 SE	3 15	− 3 78	0 52	17	14	0	0 1
Nicola Lake																		1 32	+ 0 25	1 02	5	26	0	0 0
North Nicomen																		9 13	− [illegible] 38	0 65	23	8	0	0 0
New Westminster																		9 28	+ 1 84	1 19	22	9	0	0 0
Nelson																		2 45		0 40	12	19	0	0 0
Needles																		2 00	—	0 80	8	23	0	0 0
Okanagan Mission (Kelowna)																		1 45	+ 0 15	0 30	10	21	0	0 0
Princeton																		0 65	− 0 73	0 20	7	24	0	0 0
Penticton																		1 92	—	0 40	10	21	0	0 0
Pemberton Hatchery																		2 82	—	0 80	12	19	0	0 0
Prince Rupert		86	8	25	0	4	18	7	11	0	1	0	21	62	4 2	16 0	17 E	13 19	—	1 34	27	4	0	0 0
Quesnelle																		2 35	+ 1 28	0 70	7	24	0	0 0
Revelstoke																		4 30	− [illegible] 64	0 70	15	16	0	0 1
Rossland																		4 3[illegible]	—	0 90	14	17	0	0 1
Ruskin (Stave Falls)																		10 75	—	[illegible] 76	16	5	0	0 3
Salmon Arm																		4 50	+ 2 28	[illegible] 87	13	18	0	0 3
Salmon Arm (Ex. Farm)																		3 85	—	1 56	11	20	0	0 0
Steveston (Garry Point)																		5 50	+ 0 62	0 72	25	6	0	0 2
Swanson Bay																		28 04	—	1 17	23	8	0	0 1
Salt Spring Island																		4 13	—	0 67	19	12	0	0 2
Summerland																		.		...			.	..

Sooke	48	41	123	44	25												
Stewart	56	1	130	1	215					27 4		2	38 0	12	−4 0	30-31	5 5
Tobacco Plains (Elko)	49	1	115	5	2681					22 7	−5 8	15	40 0	9-10	−14 8	31	7 6
Triangle Island	50	52	129	5	680	29 96	30.50	29.42	1.08	36 0		2	41 0	7	26 0	29-31	3.7
aTranquille	50	41	120	29		28 72	29 13	28 02	1 11	27.0		4	47.0	22-23	−12 0	31	10.1
Vernon (Coldstream Ranch)	50	14	119	15	1246					23 7		16	40.0	8	−6 0	31	10 0
Victoria	48	24	123	19	85	30 04	30.58	29.42	1 16	41.3	−1 5	19	50 2	22	30 0	20	7.1
Vancouver	49	17	123	5	136	30.06	30.57	29 42	1.15	38 7	−0 9	11	52 0	8	21.3	31	5.7
Winter Harbour	50	32	128	3						49.3	−0 4	16	55 0	2	24 0	31	8 6
Wilmer	50	34	116	14						14.6		3	38 5	9	−18 0	31	6.5
Yukon—																	
Carcross	60	11	134	31	2171					15 8		5	18 0	13	−26 0	30	12.9
Dawson	64	4	139	20	1200												
Alberta—																	
Athabasca Landing	54	43	113	17	1650					11 4		11	47 0	5	−46 0	29	20.3
Alix	52	24	113	10						20 4		7	65.0	3	−41 0	31	31.6
Banff	51	10	115	34	4542	30.10	30 49	29.30	1.19	14 5	−5 6	17	39.7	1	−28 8	30	16.9
Blairmore	49	40	114	39	4225												
Calgary	51	2	114	2	3389	29.96	30.58	29 24	1.34	21 0	+0 1	27	50 0	1-22	−30.0	30	18 0
Cardston	49	12	113	18						22.1		7	51 0	1	−33.0	30	39 8
Delia	51	38	112	25						20 2		1	40 0	4	−31.6	31	16 6
Didsbury	51	40	114	8	3300					23 8		8	54 0	3-4	−40 0	30	20.9
aDunvegan	55	56	118	35	1305												
Daysland	55	52	112	17						12 3		4	41.0	2	−35 0	31	19 4
Edmonton	53	33	113	30	2158	29 95	30 71	29 19	1 52	17 4	−1 4	29	50 0	2	−33 0	31	19 7
Eckville	52	23	114	22													
Endiang	52	0	112	0	2795					11 2		1	39 0	4	−37.0	30	18 1
Fort Vermilion	58	27	116	3						−1 9		7	35 5	16	−58 5	28	25 4
Gleichen	50	59	112	51	2952												
Gilt Edge	52	59	110	43													
Hillsdown	52	14	113	29	2806					17 3		8	44 0	2	−35.0	31	18.7
High River	50	35	113	53	3394					18 7		9	49.0	2-4	−31 0	31	22 6
Harmattan	51	45	114	23	3500					18 1		4	50 0	3	−38 0	30	26 1
Halkirk (Emsburg)	52	17	112	10						17.3		5	42 0	3	−28.0	31	18 0
Lethbridge	49	42	112	51	2961					25.3		10	57 6	4	−32 4	31	17.8
Lethbridge (Ex. Farm)	49	43	112	51						22 9		4	58 1	3	−34 3	29	20 4
Lacombe	52	58	113	44	2783					14 7		5	45 8	1	−37 6	31	22 0
Lawrence (Parkland)	50	16	113	26						15.5		2	49 0	5	−37 0	31	24.1
Luanford	51	33	114	19						13 1		2	56 2	2	−41 0	28	26.7
Loveland	52	30	111	59						13 8		2	38 0	3 14	−36 0	31	18 7
Medicine Hat	50	1	110	37	2161	29 97	30.58	29 13	1 45	21 1	−0 7	26	45 0	22	−32 0	31	15 8
Macleod	49	44	113	24	3128					24 1	−3 2	22	55 0	4-5	−35 0	28	17 1
Peace River Crossing	56	15	117	15						5 3		4	17.0	2	−58 0	29	20 9
Pembina	54	12	114	0						—		4	43 0	21	−40 0	27	—
Pakan (Victoria)	54	0	112	31						12 2		7	39 0	2	−46 0	29	24 4
Pincher Creek	49	0	114	4	3750					25 6		17	58 0	22	−32 0	29	19 0
Playle Creek (Furman)										19 4		1	59.3	5	−34 9	29	19 2
Red Deer	52	16	113	49													
Spirit River	55	40	118	47													
Sundial	50	6	112	34						20 3		1	56 0	3	−37.0	30	20.2
Threehills Creek	51	30	113	11													
Wetaskiwin	52	58	113	23	2480					13 2		9	45 0	1	−32 0	30	17 4
Waitefield	53	29	111	38	2000					11.1		7	41 8	3	−42 0	31	19 5
Saskatchewan—																	
Battleford	52	41	108	20	1620	30 01	30 74	29 20	1.54	9.4	+1 9	20	38 0	6	−38 0	31	14 2
Broadview	50	23	102	33	1960												
Brownlee	50	45	106	0													
Chaplin	50	26	106	39	2202					9 0	−2 5	27	40 0	3	−35 0	30	21.7
Cannington Manor	49	43	102	2	2064												
Crescent Lake	50	59	102	25	1658					8 9		8	37 2	5	−37 0	30	17 4
Cumberland House	53	56	102	16						10 7		1	33 0	19	−42 0	31	10 1
Chagoness	52	32	104	13						10 1		1	35 0	6	−40 0	31	13 0
Duck Lake	52	54	106	20													
Estevan	49	12	103	4	1858					11 9		9	36 0	9	−27 0	29	13 1
Fort Qu'Appelle										10 2		1	39 8	6	−32 0	28-29	17.5

Stewart																	11 71	—	1.36	23	8	0	0	0
Tobacco Plains (Elko)																	1 84	−0 55	0 70	6	25	0	0	0
Triangle Island	98	10	30	5	4	0	18	0	29	4	2	0	62	36 8	78.0	—	7 94	—	1.04	30	1	0	0	2
aTranquille	85	7	9	5	1	21	2	1	1	8	1	22	62				0 86	—	0.20	6	25	0	0	0
Vernon (Coldstream Ranch)																	2 55	+1 30	0 60	10	21	0	0	0
Victoria	88	8	11	15	6	13	8	2	10	5	2	1	62	8 8	32 0	8 sw	2 [illegible]	−3 47	0 63	21	10	0	0	[illegible]
Vancouver	90	8	17	0	2	27	9	3	2	5	0	14	62	3 7	15 0	19 w	8 82	—	1 12	27	4	0	0	2
Winter Harbour																	14 98	+7 94	3 02	24	7	0	0	[illegible]
Wilmer																	0.32	—	0 17	7	24	0	0	4
Carcross																	0 79	—	0.30	7	24	0	0	0
Athabasca Landing				3	3	3	0	2	5	8	7	0	31				0 20		0.17	2	29	0	0	0
Alix																	0 25		0.13	3	28	0	0	0
Banff			3	0	7	0	1	1	20	11	2	20	62				1 04	−0 13	0.91	4	27	2	0	0
Calgary			2	1	3	0	1	2	1	6	29	19	62				0 08	−0 46	0 02	5	26	1	0	0
Cardston																	1 20	—	0 40	5	26	0	0	0
Delia																	0 30	—	0.10	4	27	0	0	0
Didsbury				1	0	0	0	3	9	4	14	0	31				0 50	—	0 20	4	27	0	0	0
Daysland																	0.45	—	0 20	3	28	0	0	0
Edmonton			5	1	8	2	2	11	16	12	6	4	62				0 26	−0 54	0.15	5	26	1	0	0
Endiang																	S	—	S	0	31	0	0	0
Fort Vermilion																	0 22	—	0 20	2	29	6	0	7
Hillsdown				0	5	0	11	3	9	1	19	13	61				0 30	—	0 10	4	27	1	0	0
High River																	0 30	—	0 20	2	29	0	0	0
Harmattan																	0 28	—	0 15	4	27	0	0	0
Halkirk (Emsburg)																	0 11	—	0 06	2	29	2	0	1
Lethbridge				4	0	0	6	10	22	6	14	0	62				0 41	—	0 15	4	27	0	0	0
Lethbridge (Ex. Farm)																	0 77	—	0 20	7	24	0	0	0
Lacombe																	0 19	—	0 05	5	26	0	0	0
Lawrence (Parkland)																	0 40	—	0 20	3	28	0	0	0
Luanford																						0	0	0
Loveland				0	1	1	6	2	5	8	8	0	31				0 10		0 10	1	30	0	0	0
Medicine Hat				0	1	4	9	10	16	9	13	0	62				0 54	0 03	0 20	5	26	1	0	0
Macleod																	0 70	1 33	0 30	3	28	0	0	0
Peace River Crossing																	0 90		0 50	3	28	1	0	1
Pembina																	0 35		0 20	3	28	0	0	0
Pakan (Victoria)				4	7	3	2	3	21	10	5	7	62				0 20	—	0 10	4	27	0	0	1
Pincher Creek																	0 01		0 01	1	30	0	0	0
Playle Creek (Furman)																	0 75	—	0 50	3	28	0	0	[illegible]
Sundial																	—		—	—	-	0	0	0
Wetaskiwin																	0 40	—	0 18	5	26	0	0	0
Waitefield				8	4	6	15	4	4	11	15	26	93				0 34	—	0 06	13	8	3	0	3
Battleford				2	0	0	26	0	4	5	18	38	93				0 50	+0 11	0.2[illegible]	4	27	0	0	0
Chaplin				0	5	1	7	0	3	3	12	0	31				0 66	+0 09	0 20	5	26	0	0	2
Crescent Lake				2	0	2	1	8	5	[illegible]	4	3	31				0 20	—	0 20	3	28	2	0	2
Cumberland House																				—	—	0	0	1
Chagoness																	0 75	—	0 40	3	28	3	0	1
Estevan				3	3	3	3	12	2	2	3	[illegible]	31				0 20	—	0 20	1	30	0	0	1
Fort Qu'Appelle																	0 74	—	0 18	11	17	3	0	[illegible]

DEPARTMENT OF MARINE AND FISHERIES, CANADA: METEOROLOGICAL SERVICE.

PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA, DECEMBER, 1911

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

STATION	Latitude N.	Longitude W.	Elevation above sea level in feet	Pressure: Mean reduced	Pressure: Highest	Pressure: Lowest	Pressure: Range	Temperature: Mean	Temperature: Difference from average	Temperature: Yr's observations	Temperature: Highest	Temperature: Date	Temperature: Lowest	Temperature: Date	Temperature: Mean daily range	Mean temperature of dew point	Mean relative humidity	Mean amount of cloud	No. of days completely clouded	Wind from: N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	C.	Total number of observations	Velocity of Wind: Mean miles per hour	Highest hourly velocity	Date and direction	Precipitation: Amount	Difference from average	Heaviest in 24 hrs	Date	No. [illegible]	No. [illegible]	No. [illegible]
Saskatchewan—Continued																																							
Grenfell (Brownlull)	50 23	102 53	1957					8.8	+2.4	21	39.0	9	−34.0	27	18.0					0	4	[illegible]	13	12	16	1	11	0	62				[illegible]	−0.33	[illegible]	[illegible]	1	0	0
Glenbryan (Latchmount)	49 51	107 27						10.4		1	39.0	23	−31.4	30	18.4					1	6	0	8	6	5	16	20	0	62				0.85	—	0.45	5 26	1	0	0
Humboldt	52 12	105 9						8.6		5	42.0	2	−40.0	28	16.6																		0.71		[illegible]	[illegible]	[illegible]	[illegible]	0
Indian Head	50 28	103 40	1924					9.6		20	40.0	4	−31.0	28-30	16.6					6	0	3	6	12	10	5	33	18	93				0.35	−0.36	[illegible]	6 25	0	[illegible]	0
Imperial	51 22	105 23						10.2		1	35.0	1	−37.0	31	19.0																		0.35	−0.16	[illegible]	5 26	0	[illegible]	[illegible]
Kelvinhurst	49 21	109 29																															0.60						
Lloydminster	53 18	110 0						9.1		7	33.5	3	−42.0	31	18.9																					—	0	[illegible]	[illegible]
Luseland	52 5	109 21						8.8		1	37.0	2 1	−39.0	30	16.0																		0.80	—	0.60	2 2[illegible]	0	[illegible]	[illegible]
Lost River								6.7		1	38.0	1	−42.0	29	11.9																		—			[illegible]	0	[illegible]	[illegible]
Moose Jaw	50 21	105 35	1759	30.06	30.84	29.16	1.65	13.7	+2.9	17	46.0	4	−27.0	28, 31	16.2					12	1	8	9	1	12	13	12	23	93				0.47	−0.27	0.20	6 25	0	[illegible]	1
Moosomin	50 0	101 37	1884					8.5		10	41.0	4	−33.0	29-30	14.2					0	0	3	9	4	0	8	7	0	31				—	—	—	—	0	0	[illegible]
Munster (St. Peters Monastery)	52 0	105 0	1870					7.0		5	31.0	2	−41.0	31	15.3					0	0	0	2	1	32	0	27	0	62				0.20	—	0.10	2 2[illegible]	2	[illegible]	0
Melfort	52 47	104 30						7.6		8	33.0	1-3	−39.0	28, 31	13.7																		[illegible]		[illegible]	2 2[illegible]	[illegible]	0	1
Maple Creek (Divide)	49 55	109 28	3500					15.2		2	47.1	5	−27.6	30	13.1																		0.66	—	0.20	8 23	2	0	2
Onion Lake	53 52	109 59						6.7		4	41.0	1	−49.0	31	22.7					2	3	11	1	2	0	9	3	0	31				—		—	—	0	0	0
Oliver	51 46	108 10						6.4		2	24.0	2 3	−38.0	31	20.7																		0.70	—	[illegible]	2 29	1	0	0
Pense (Gatesgarth)	50 20	105 0	1879					10.9	+1.6	24	42.0	4	−32.0	28	19.0					4	0	2	8	3	3	4	7	0	31				0.80	—	[illegible]	2 2[illegible]	[illegible]	0	0
Prince Albert	53 10	106 0	1432	29.93	30.75	29.12	1.63	7.2	+1.7	27	35.5	3	−45.0	31	13.1					6	2	2	8	5	8	1	8	22	62				1.10	+0.34	[illegible]	2 2[illegible]	1	0	1
Prince (Meota)	51 0	108 20	1700					6.4		5	37.0	2	−45.0	31	19.0																		[illegible]		[illegible]	0 31	2	[illegible]	2
Pilger	52 25	105 9						5.1		1	32.0	1	−46.0	31	14.8																		[illegible]	—	[illegible]	4 27	[illegible]	[illegible]	0
Qu'Appelle	50 30	103 47	2115	29.99	30.65	29.15	1.50	11.3	+2.6	27	44.0	4	−31.0	29	12.3		80	—		4	2	4	6	9	15	9	12	1	62				0.55	[illegible]	0.25	6 25	[illegible]	1	0
Quill Lake	52 4	104 14	1600					3.7		1	30.0	2 20	−42.5	31	15.3																		0.20	—	[illegible]	1 30	[illegible]	[illegible]	[illegible]
Regina	50 27	104 37	1885					10.2	+4.3	26	40.0	4	−31.0	29	16.1																		0.45	−0.16	[illegible]	[illegible] 25	[illegible]	[illegible]	0
Rathmullen	51 20	108 57						5.3		2	35.0	23	−38.5	31	20.1																		[illegible]		[illegible]	[illegible] 25	[illegible]	0	0
Rosthern	52 40	106 20	1657					6.1		2	32.4	3	−42.8	31	15.2																		[illegible]	—	[illegible]	[illegible]	[illegible]	[illegible]	1
Swift Current	50 20	107 45	2139	30.04	30.61	29.13	1.51	11.3	−3.5	25	42.0	4	−32.0	31	14.1					7	1	2	0	18	12	40	10	3	93				[illegible]	[illegible]	[illegible]	11 2[illegible]	1	[illegible]	[illegible]
Saskatoon	52 15	106 30	1571					8.4		11	34.5	24	−39.0	31	16.3																		[illegible]	—	[illegible]	4 27	[illegible]	[illegible]	[illegible]
Scott (Ex. Farm)								7.7		1	36.0	2	−37.8	31	18.0																		[illegible]	—	[illegible]	7 24	0	0	[illegible]
Strassburg	51 5	104 56						7.7		2	32.0	3	−32.0	28	14.1																		—			—	0	[illegible]	[illegible]
The Pas	53 49	101 15	860	30.09	30.93	29.32	1.61	3.5		2	35.0	3	−51.0	29	14.0		89			7	2	13	2	6	2	20	2	8	62				0.70	—	0.30	8 23	2	0	0
Waseca	53 6	109 29						6.5		5	20.6	2	−32.0	28	17.4					0	4	2	8	1	3	8	5	0	31				0.45	—	0.20	4 27	0	0	[illegible]
Yorkton	51 11	102 29																																					
Yarbo (Fairfield)	50 39	102 4																																					
Yellow Grass	49 49	104 9						11.6		1	37.0	8-9	−27.0	29	17.3																		—	—	—	—	0	0	0
Manitoba—																																							
Almasippi	49 14	99 20						11.9		9	41.0	4	−32.0	29	14.0																		0.35	—	0.10	4 27	0	0	0
a Aweme (St. Albans)	49 42	99 35	1180	28.74	29.33	28.04	1.29	10.6	+4.3	27	37.5	4	−34.0	30	15.1																		0.31	−0.64	0.12	9 22	0	0	0
Brandon	49 51	99 57	1176					10.3	+4.9	25	36.4	8	−31.7	31	14.8																								
Berens River	52 18	97 23	710					6.1		4	30.0	9-22	−47.5	29	17.0					12	4	22	8	4	0	6	6	0	62				2.90	—	1.60	4 27	0	0	0
Birtle	50 25	101 1	1703																																				
Carberry	49 52	99 20	1258					—		7	—	—	−45.0	29-30	—																		0.20	—	0.20	1 30	0	0	0
Carman	49 31	98 0	872																																				

Cypress River	49	33	99	3	1232																																					
Dauphin	51	8	100	2	957					11.5		6	43.0	5	—40.0	29	13.6																		0 60	—	0.50	2	29	0	0	0
Hillview	49	55	100	33	1400					8 9	+ 2.7	26	36.0	8	—33.0	28	13.4			6	14	5	4	12	15	6	12	5	34	0	93				0 40	—0 18	0.30	2	29	1	0	0
Minnedosa	50	15	99	50	1699	30.04	30 74	29.23	1 51	10 3	+ 1.2	31	35 6	5	—38 1	29	14.9			6	13	1	0	0	0	1	1	6	9	44	62				0 47	—0 15	0.34	3	28	1	0	2
Morden	49	11	98	6	978					13 5		8	42.0	10	—30.0	29	13.7					14	5	0	2	2	13	8	10	8	62				1.24	—	0.54	4	27	0	0	0
Moose Horn Bay (Aitken-ville)	51	15	99	33						8.5		2	37.1	9	—39.3	29	18.9					18	3	2	3	11	3	1	5	6	52				0 88	—	0 62	9	22	2	0	0
Ninga	49	14	99	51	1649					—		1	40.6	4	—29.0	29-31	—																		0 57	—	0.19	4	27	0	0	0
Ninette	49	24	99	38	1363					9.6		1	45.0	9	—30.0	30	12.2																		0.18	—	0 10	3	28	0	0	0
Oak Bank	49	57	96	42	800					11.6	+ 5.7	16	35.5	8	—30.0	29	11.2					3	1	0	1	5	7	0	12	2	31				0.80	+0 28	0.20	5	26	0	0	0
Pipestone	49	34	100	58	1400																																					
Portage la Prairie	49	57	98	17	830					13 1	+ 5.9	22	38.0	8-9	—31.0	29	13.8																		0.13	—0.15	0 08	2	29	0	0	0
Portage la Prairie (2)	49	56	98	17																																						
Pierson	49	11	101	5	1531																																					
Stony Mountain	50	40	97	14	803					10.7	+ 3 5	29	38.0	10	—35.0	29	16 7					6	4	4	7	15	1	6	15	0	58				—	—	—	—	—	0	0	0
Swan River	52	6	101	15	1112					6 0		4	33.0	3-8	—50 0	27	16.4																		1.20	—	1 00	2	29	0	0	0
Treherne	49	36	98	40	1212					11.7	+ 3.2	16	41 0	4	—32.0	29	14.1																		0 47	—	0.13	11	20	0	0	0
Virden	49	51	100	55	1444																																					
Winnipeg	49	53	97	7	760	30.08	30.78	29.31	1.47	12.4	+ 5.0	37	38.4	8	—31.4	29	13.4			7	7	10	0	2	3	16	3	7	14	7	62				0 59	—0 13	0 12	12	19	0	0	0
ONTARIO—																																										
Alton	43	51	80	5	1250					26.5	+ 3 2	24	52 2	11	—1.4	20	14.4			7	10	2	1	17	3	22	9	37	2	0	93	n	v	27 w	2 49	+0.17	0.50	11	20	0	0	5
Aurora	43	57	79	24	886					29.0	—	4	54.0	11	2 0	4	12.8																		2.64	+0 54	0.39	14	17	0	0	0
Agincourt	43	47	79	16	590					31.5	+ 8.2	17	54 2	10	3.0	4	10.3					3	12	12	3	0	30	11	17	5	93				2.60	+0.28	0 45	15	16	0	0	5
Barrie	44	23	79	41	839																																					
Beatrice	45	8	79	20	800					26.6	+ 7.5	36	51 0	11	— 3.0	4	13.9			8	18	1	1	1	11	13	11	2	19	34	93				2 26	—1 95	0.70	10	21	0	0	3
Bruce Mines	46	18	83	55	595					26.2	+ 9.0	13	46 0	10	0.0	3	13.0																		3.24	+0 67	1 31	12	19	0	0	0
Birnam	43	2	81	55	600					32.7	+ 5 9	28	57.1	10	11.7	4	7 5					8	3	8	6	15	8	5	8	1	62				1.86	—1 54	0 42	8	23	0	0	2
Brantford	43	10	80	21	750					32.2	+ 6.5	30	56.0	11	10.0	3	11.6																		1.85	—0 59	1 09	3	28	0	0	3
Bloomfield	43	59	77	21	260					31.8	+ 5.8	12	55.0	11	5.0	4	10.4																		3.01	—	0.75	8	23	0	0	0
Bancroft	45	1	77	50						25.2		22	50.0	11	—10.0	3	16.2																		—	—	—	—	—	0	0	0
Copper Cliff	46	30	80	59						22.6		6	47.0	10	— 6.0	29	12.7																		2.21	—	1.18	6	25	0	0	0
Clinton	43	32	81	37						30.4		9	55.0	11	8.0	4	8.9					3	1	8	10	14	5	12	9	0	62				2 78	—	0.36	15	16	0	0	1
Coldwater	44	38	79	40	600					25.6	+ 4.8	24	47.0	10	— 9.0	4	16.6																		—	—	—	—	—	0	0	0
Cottam	42	7	82	45	606					32.5	+ 2.3	24	54.0	10	10.0	31	16 6					6	3	5	10	15	6	16	1	0	62				3 14	+0.51	0 85	8	23	0	0	0
Chatham	42	23	82	12	595					32.0	+ 5.2	25	55.0	10	10.0	4-29	13.0																		3 68	+1.86	0 81	11	20	0	0	0
Cochrane	49	2	81	0	946	30.11	30 71	29.45	1.26	18.7		2	45.0	11	—24.5	30	11.7					9	4	8	1	15	7	14	4	0	62				1 62	—	0 62	7	24	0	0	0
Collingwood	44	31	80	2																																						
Elora	43	41	80	21	1274					28 8	+ 4 4	14	53 0	9	5.0	4	11.1																		2 83	—0.08	0 46	11	20	0	0	0
Gravenhurst	44	54	79	20						26.0	+ 5.1	41	50.0	11	— 1.0	4-30	14 1			7	11	13	2	7	20	14	3	13	6	15	93	n	v	—	1 60	—2 34	0.30	9	22	0	0	1
Guelph	43	33	80	16	1050					30.9	+ 7.1	25	53.0	11	8.0	4	9.8																		0 56	—1.78	0.15	6	25	0	0	2
Grimsby	43	13	79	36						35.0		2	61.0	11	14.0	4	11.0																		2 42	—	0.49	12	19	0	0	0
Haileybury	47	29	79	39	687	30.10	30.08	29.16	1.52	22.7	+11 2	18	50.8	11	—14.7	30	10.8					6	5	2	3	8	12	7	12	7	62	n	v	—	2 73	+0.48	0 70	14	17	0	0	0
Hamilton	43	16	79	54	303					33.9	+ 6.7	36	58.0	11	2.0	25	9.3																		—	—	—	—	—	0	0	0
Haliburton	45	1	78	28	1050					24.9	+ 6.1	24	48.0	11	—10.0	4	13 4																		—	—	—	—	—	0	0	0
Huntsville	45	19	79	8						27.0		4	47.0	10	— 4.0	3-4	10.9																		—	—	—	—	—	0	0	0
Kenora	49	48	94	32	1102					11.8	+ 5.9	13	32.0	10	—30.0	29	10.0																		1 50	+0.04	0 60	5	26	0	0	0
Kakabeka Falls	48	29	89	26	912					15.5		4	42.0	4	—27.0	29	19 1																		1.32	—	0 59	9	22	0	0	1
Kingston	44	13	76	29	285	30 11	30 62	29.32	1.30	31.9	+ 7.7	37	53.0	10	— 5.1	4	10.6					4	14	0	4	2	15	15	8	0	62				3 50	+0 66	0 50	16	15	1	0	3
Kinmount	44	45	78	38	920					24 4	+ 5 5	12	46.0	10	—13 0	3	13.6																		1 01	—	0.40	4	27	0	0	0
Lucknow	43	56	81	30	908					29.5	+ 4.0	26	58.6	10	7.0	4	10.4																		2 05	—2 23	0 34	15	16	0	0	3
Lake Talon	46	15	78	48						23 2		17	52.2	10	—15.0	30	13.8																		0.66	—1 80	0 30	6	25	0	0	0
London	42	59	81	13	808	30.08	30.55	29 42	1.13	32.1	+ 5.2	27	55.5	10-11	4 0	4	11.2					0	31	9	16	0	4	19	14	0	93				3.46	—0.05	1 00	15	16	0	0	1
Lakeside Home	43	40	79	24						34 7		5	54.0	10-11	10.0	4	11.2																		—	—	—	—	—	0	0	0
Lorne Park	43	32	79	37						33.1		4	58 0	11	11.0	4	11.4																		1.75	—	0.67	6	25	0	0	2
Lindsay	44	20	78	45	872					27.6	+ 6.0	32	52 1	12	— 1.2	4	13.9			7	11	7	2	7	7	13	13	14	11	19	93	n	v	27 w	2 47	—2 00	0 55	13	18	0	0	2
Lakefield	44	25	78	15	850					30.6		28	54 0	11-13	4.0	4	12.3																		1.87	—0.57	0 54	11	20	0	0	0
*Midland	44	44	79	53	750					—		4	—	—	—	—	—																		1 30	—1 76	0 60	4	27	0	0	0
Madoc	44	30	77	29	575					28 2		8	53.0	11	0.0	4	11 0																		3 09	—	0 60	12	19	0	0	0
Montague	44	56	75	57						27 7		2	55.0	11	— 3 0	4	12 2																		2 78	+0.93	0 50	11	20	0	0	1
Montreal River	47	8	79	29						28.3		1	56.0	13-14	—19.0	30	22.2																		2 32	—	0 60	9	22	0	0	0
*North Bruce	44	23	81	25						30.8	+ 5.2	24	53.0	10	8.0	19	—					1	8	18	3	23	13	13	11	0	93				1 18	—2 04	0 46	8	23	0	0	0
North Gower	45	8	75	43																																						
Owen Sound	44	34	80	55	597					—		34	—	—	—	—	—					13	0	0	1	43	5	0	0	0	62				2 68	—2.02	1 80	4	27	0	0	0
Orillia	44	37	79	24	775					28.4	+ 5.2	19	53.0	10	1.0	4	10.7					1	2	0	2	8	8	1	9	0	31				1.91	—1.66	0 50	7	24	0	0	0
Ottawa	45	26	75	42	294	30.11	30 60	29 27	1 33	26.4	+ 9 5	27	52 0	11	— 2.0	4	11 0					3	0	22	1	1	11	16	6	2	62				3 09	+0.38	0 57	15	16	0	0	0
Port Arthur	48	27	89	12	644	30.06	30 58	29.35	1 23	20.1	+ 5.7	30	39.0	5-12	—16.0	29	14 9			7	13	11	5	1	3	4	7	12	16	3	62				1 05	+0 36	0 40	8	23	0	0	0
Port Stanley	42	40	81	13	592	30 15	30.62	29.46	1 16	33.1	+ 4 8	37	49.2	11	7.8	4	10.2			8	20	1	7	11	10	0	8	19	3	3	62				3 18	+0.09	0 72	20	10	0	0	7
Port Dover	42	47	80	13	635					33.0	+ 5.1	36	53 5	10	7 1	4	10.7					1	2	3	3	2	7	7	6	0	31				3 43	+0.46	0 80	17	14	0	0	0
Port Burwell	42	39	80	55	592					33.1		8	48.0	10-11	6 0	4	7.5																		2 57	—	0 45	11	20	0	0	6
Parry Sound	45	19	80	0	635	30.10	30.63	29.15	1.48	28.0	+ 6.7	35	50 0	10	1 0	28	11.8					5	10	3	8	6	15	1	13	1	62				3 04	—1 62	0.65	14	17	0	0	0
Point Clark	44	5	81	44	595					—		38	—	—	—	—	—					6	0	2	3	18	11	19	3	0	62				—	—	—	—	—	0	0	0
Pelee Island	41	50	82	35	585					34 9	+ 5.5	31	62.5	21	3.0	28	10.3																		1.64	—0 48	1.54	4	37	0	0	0

DEPARTMENT OF MARINE AND FISHERIES, CANADA: — METEOROLOGICAL SERVICE.

PRESSURE, TEMPERATURE, WIND AND PRECIPITATION AT STATIONS IN THE DOMINION OF CANADA, DECEMBER, 1911

a Barometer not reduced to Sea Level. * Stations not furnished with Registering Thermometers.

Station	Latitude N.	Longitude W.	Elevation above sea level, in feet	Pressure: Mean reduced	Highest	Lowest	Range	Temperature: Mean	Difference from average	Yrs of observation	Highest	Date	Lowest	Date	Mean daily range
ONTARIO—Continued—															
Paris	43 12	80 25	840					33.3	+7.1	22	59.0	12	10.0	4	10.3
Peterboro	44 17	78 19	722					29.2	+8.3	43	52.0	10-12	1.0	4	12.7
Porcupine	48 29	81 18													
Providence Bay	45 40	82 14						26.5		1	48.0	11	0.0	3	15.1
Ronville	45 15	78 57	1058					25.1		4	50.0	10	−2.0	27-29	12.3
Renfrew	45 26	76 39	416					25.8	+9.1	20	54.2	11	−12.0	1	13.2
St. Catharines	43 9	79 17	347												
Stonecliffe (Rockliffe)	46 9	78 6	557	30.07	30.71	29.15	1.56	22.2	+8.3	31	48.0	11	−14.0	31	15.6
Southampton	44 30	81 21	656	30.11	30.61	29.26	1.38	31.1	+4.0	35	56.1	10	6.1	29	11.1
*Sarnia	42 59	82 21	586					32.7	+6.9	17	54.0	10	10.0	29	
Stratford	43 23	81 0	1191					29.7	+4.7	16	54.0	11	7.0	4	10.5
Stoney Creek	43 13	79 45	292					35.7	+5.9	27	63.0	8	11.0	1	10.4
Searchmont	46 50	87 15						—		8	44.8	10	13.8	30	
Shelburne	44 5	80 17						26.9		3	51.0	11	2.5	4	9.7
Scarboro Jct	43 43	79 13						31.3		2	53.0	10-11	3.0	4	11.7
Toronto	43 40	79 24	350	30.13	30.62	29.31	1.28	33.9	+6.2	71	54.6	10	9.2	4	10.9
Uxbridge	44 5	79 8	886					28.4		7	53.0	10-11	−2.0	30	10.0
Uplands	45 48	79 25						25.8	+9.0	26	51.0	9	−11.5	30	17.3
Urey	44 51	78 18						31.0		4	43.0	5	0.0	2	11.2
White River	48 35	85 16	1252	30.02	30.57	29.38	1.19	17.4	+9.3	12	42.0	10-11	−30.0	9	14.2
Woodstock	43 8	80 47	981	30.11	30.62	29.40	1.22	31.6	+6.2	37	56.5	10	7.5	4	11.8
Welland	42 59	79 17	577					34.4	+7.1	25	58.0	9-1?	9.0	4	11.0
Windsor	42 20	83 4	625					33.2	+6.1	38	53.0	11	15.0	28	8.9
Wallaceburg	42 35	82 21						33.1		6	57.0	10	11.0	3	11.4
QUEBEC—															
Abitibi	48 13	79 22						17.5	+10.4	10	46.0	12	−23.0	30	12.[illegible]
*Anticosti, E. Pt	49 6	61 42	30												
*Anticosti, W. Pt	49 52	64 32	30					45.0		25	28.0	11	−1.0	2	
Brome	45 10	72 [illegible]	678					28.8	+1?.4	31	57.0	11	−10.0	4	10.4
*Berquet	48 25	68 53						23.9		30	41.0	12	3.0	31	—
Clarke City	50 10	66 25						13.9		5	41.0	12	−21.0	2	19.5
*Cap Chatte	49 6	66 45						23.6	+4.9	27	43.0	11	9.0	31	
*Cape Magdalen	49 16	65 20	93					23.4	+5.1	28	44.0	12	6.0	31	—
Chicoutimi	48 25	71 5	150					—		53	—		—		—
Chicoutimi (2)								18.0	+9.4	1	41.0	9-12	−15.0	5	15.6
Cap Rouge	46 46	71 18						21.2		1	45.0	12	−11.2	27	11.8
D'Israeli	45 55	71 21						25.1		3	52.0	13	0.0	19	12.6
Father Point	48 31	68 19	20	30.04	30.77	29.63	1.14	22.6	+6.5	31	46.0	11	−1.0	2	12.6
Lake Edward	47 39	72 15	1333					15.5		2	43.6	12	−21.8	20	15.9
La Tuque	47 27	72 48						18.9		1	45.0	12	−13.0	4	18.3
Montreal	45 30	73 35	187	30.10	30.56	29.24	1.32	28.1	+9.0	12	53.0	12	1.0	4	9.5
Manouan								17.8		1	45.0	12	−20.0	31	16.7
Parkins Mills	45 38	75 [illegible]													
Quebec	46 48	71 12	296	30.08	30.48	29.24	1.24	22.5	+7.1	37	46.2	11	[illegible]	30	10.4
Roberval	48 31	72 13	352												
Ste. Anne de Bellevue	45 27	73 5						27.2		5	57.5	11	−7.0	4	8.8
Shawinigan Falls	46 31	72 45						18.6		8	[illegible]	10-12	−15.0	5	13.1
Sherbrooke	45 32	72 [illegible]	625					25.8		18	57.5	12	−7.[illegible]	5	1[illegible]

Station	Mean temperature of dew point	Mean relative humidity	Mean amount of cloud	No. of days completely clouded	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Calm	Total number of observations	Mean miles per hour	Highest velocity	Date and direction	Precipitation: Amount	Difference from average	Heaviest fall in 24 hours	Date	Days with .01 or more
ONTARIO—Continued—																						
Paris																		2.58	+0.11	0.71	12	19
Peterboro																		1.91	−0.70	0.75	10	21
Porcupine																						
Providence Bay																		3.32	—	[illegible]	[illegible]	24
Ronville																		0.90	—	0.38	5	26
Renfrew																		1.41	+0.15	0.45	9	22
St. Catharines																						
Stonecliffe (Rockliffe)					1	1	5	1	0	0	10	1	43	62				1.35	−0.94	0.40	8	2[illegible]
Southampton			9	19	7	[illegible]	11	5	23	3	2	4	0	62				1.77	−1.08	0.37	21	19
*Sarnia																		0.55	−3.49	[illegible]	2	29
Stratford																		1.74	−2.21	[illegible]	10	21
Stoney Creek			7	11	4	8	11	0	0	14	41	12	0	93	11	18	27 N.W.	1.56	−1.53	0.40	[illegible]	25
Searchmont																		2.70	—	[illegible]	7	24
Shelburne																		2.84	—	0.45	10	21
Scarboro Jct					2	3	5	1	0	7	6	2	2	31				2.81	—	[illegible]	[illegible]	22
Toronto					6	5	8	1	1	12	6	8	2	62				2.85	+0.24	0.47	18	1[illegible]
Uxbridge																		2.08		0.41	12	19
Uplands					7	1	5	0	13	1	22	3	10	62				1.78	[illegible]	[illegible]	8	2[illegible]
Urey																		1.[illegible]			8	2[illegible]
White River					6	1	5	3	4	1	14	5	23	62				2.[illegible]		0.47		11
Woodstock		83	8	2[illegible]	2	5	3	10	1	32	15	19	0	93	11.1	[illegible]	27 W.	2.51	−2.4[illegible]	0.78	15	1[illegible]
Welland																		2.82	[illegible]	0.4[illegible]	1	18
Windsor																		1.[illegible]	[illegible]	0.75	8	2[illegible]
Wallaceburg																		1.67	—	0.42	17	18
QUEBEC—																						
Abitibi					11	4	16	1	17	7	[illegible]	1	0	93	11	[illegible]	28 S.W.	1.40	−1.11	[illegible]		
*Anticosti, E. Pt																						
*Anticosti, W. Pt					21	15	16	4	8	2	4	21	0	[illegible]				3.6[illegible]		[illegible]	7	[illegible]
Brome					0	0	7	2	10	17	47	1	[illegible]	[illegible]				0.5[illegible]		1.76		
*Berquet																		4.15	—	1.00	12	19
Clarke City					18	1	2	0	1	2	2	5	0	31				3.52	—	1.0[illegible]	10	21
*Cap Chatte					2	5	10	0	1	3	47	0	25	93				2.50	—	0.20	6	25
*Cape Magdalen					2	1	1	2	14	5	3	53	12	93				2.20		1.0[illegible]	7	24
Chicoutimi			8	6	0	2	0	56	0	35	0	0	0	93	11	[illegible]	27 S.W.	0.7[illegible]	−1.87	[illegible]	[illegible]	25
Chicoutimi (2)																						
Cap Rouge																		4.1[illegible]		0.6[illegible]	15	17
D'Israeli																		3.41		0.81	8	2[illegible]
Father Point			9	16	0	2	8	6	4	6	17	10	0	62				1.18	+0.12	1.[illegible]	10	2[illegible]
Lake Edward																		2.1[illegible]				
La Tuque																		1.68		0.40	6	[illegible]
Montreal			7	12	[illegible]	4	1	4	7	18	13	6	0	62				3.[illegible]	−0.17	[illegible]	17	1[illegible]
Manouan																		1.88	—	0.47	8	[illegible]
Parkins Mills																						
Quebec			8	16	1	21	6	1	0	27	8	4	0	62				3.57	−0.41	0.47	15	1[illegible]
Roberval																						
Ste. Anne de Bellevue																		2.4[illegible]		[illegible]		4
Shawinigan Falls																		3.11		0.60		21
Sherbrooke																		[illegible].27		1.01	14	12

New Brunswick—																																										
Chatham	47	3	65	29	21	30 04	30 54	28.98	1.56	24.8	+ 6 3	36	52.5	12	— 7 5	31	14.1	...	...	7	10	3	6	10	2	0	10	22	7	2	62			...	3 33	+0.15	1 44	12	19	0	0	0
Dalhousie	48	4	66	22	39	...	...	...	...	23 2	+ 8 6	36	47 0	12	2 0	2	11 5	...	...	...	...	0	0	4	1	0	6	17	0	3	31	...	...	...	2 60	—0.15	1 20	5	26	0	0	0
Fredericton	45	57	66	36	164	30.08	30 45	29.17	1.28	21 2	+ 5.2	39	56.0	12	— 2 0	31	14 6	..	87	7	7	1	12	8	6	1	9	17	37	2	93	9 6	31 3	29NW	2 03	—1.48	0.70	7	24	0	0	3
Grand Manan	44	47	66	46	49	30.08	30.56	29.20	1.36	33.1	+ 3 6	27	56.0	11-12	9 0	29	12.1	...	..	6	5	6	8	7	1	1	9	3	24	3	62	.	. .	. .	2 42	—2 07	1.75	7	24	0	0	0
Moncton	46	9	64	45	50	...	...	...	...	26.1	+ 6 5	14	56.0	11-12	0.0	30	15.7	..	...	...	...	1	2	2	7	1	0	2	16	0	31	.	.	...	1 80	—0 81	1 00	6	26	0	0	1
*Point Lepreaux	45	4	66	28	30					30.9	+ 5 1	33	48 0	11-13	10.0	30	—			5	9	15	10	5	2	4	10	7	25	0	78	III	VII	15NW	3.17	—0.23	2 42	5	25	0	0	2
St. John	45	17	66	4	70	30.06	30 44	29.22	1.22	29 2	+ 5.0	39	52 0	11	3 0	31	11.5	...	..	6	7	9	11	3	3	6	3	3	19	5	62	.	....	....	2.95	—1 08	1 86	10	21	0	0	3
St. Stephen	45	11	67	16	35	....	....	...	..	27.3	+ 5 9	14	59 0	12	— 1 0	21	15.2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	.	...	...	3 53	+0 14	1 93	7	24	0	0	2
Sussex	45	38	65	38	69	...	...	...	..	26.7	+ 7.8	14	55 0	12	0.0	6	14 7	...	...	...	...	0	2	0	1	0	3	2	3	19	31		. .	.	2.74	—1 12	1 85	4	27	0	0	0
Nova Scotia—																																										
Antigonish	45	38	61	59	50	..	....	....	....	....	.....	2	....	....	.....	.....	....	...	...	...	....	....	....	....	....	....	....	....	....	....	....	....	.....	....								
Halifax	44	39	63	36	88	30 03	30 47	29.20	1.27	31.0	+ 1 7	37	56 6	12	11 2	20	11 6	...	...	...	....	12	9	5	2	1	9	11	15	4	62	. . .	.	.	3 40	—2 29	1.58	11	20	0	0	1
Port Hastings	45	39	61	22	45	.....	.....	....	...	28 4	+ 0.7	19	48.0	3-13	3.0	29	11 7	...	...	...	....	0	2	0	1	0	9	0	16	0	31			.	1 05	—2 55	0.95	2	29	0	0	0
Parrsboro'	45	23	64	19	40	....	....	....	.	25.6	+ 0.4	15	48 0	12	7 0	30	12.8	...	...	...	....	...	...	...	...	...	...	...	...	...	...	. .	.	. .	—	—	—	—	—	0	0	0
Sydney	46	10	60	10	35	29.97	30.54	28.93	1.61	31.3	+ 2.1	38	56 0	12	12.5	29	10.2	...	...	9	24	3	5	3	1	2	7	16	23	2	62	......	......	......	2 40	—3.29	1 22	6	25	0	0	1
*Sable Island, E. Pt	43	58	59	46	25	.....	.....	.....	....	37.7	.....	27	47.0	13	22.0	29	—	...	....	....	....	2	18	0	9	0	19	0	45	0	93	......	......	......	4.60	—	1 10	5	26	0	0	2
Truro	45	22	63	18	77	.....	.....	.....	....	29.0	+ 4 1	37	55.0	13	4.5	31	12.5	...	....	....	....	10	9	5	6	11	15	13	8	6	93	....	......	......	2.17	......	1 06	8	23	0	0	5
Windsor	44	59	64	6	90	..	...	....	...	30.7	....	9	61.5	14	9 0	29	11.8	...	....	....	....	...	...	...	...	...	...	...	...	...	...	....	....	..	1 43	—	0.50	6	25	0	0	0
*Whitehead	45	15	61	8	20	....	....	..	...	31 5	+ 0.7	28	46 0	13	15.0	29	—	...	....	....	....	9	3	4	5	2	14	26	30	0	93	. . .	.	....	2 00	—1 81	0 75	4	27	0	0	4
aWolfville	45	7	64	20	...	29 93	30 45	29 09	1.36	30.5	+ 5 2	11	62 5	12	9 5	29	12.9	...	....	....	....	4	5	4	3	4	10	12	15	5	62	....	....	.....	1 10	—2.87	1 04	6	25	1	0	0
Yarmouth	43	50	66	2	65	30.08	30 46	29 25	1.21	33.8	+ 2.6	31	53 2	12	16.3	20	10.0	...	....	....	....	16	4	19	3	2	5	3	9	1	62	....	...	.....	2 18	—2.57	1.31	9	22	0	0	3
P. E. Island—																																										
Charlottetown	46	14	63	10	38	30 01	30.48	29.01	1 47	28.9	+ 3.8	36	51 0	12	7 5	29	9.6	...	..	...	....	2	9	0	3	5	8	7	23	5	62	. .	....	....	1 75	—2 09	0.85	6	25	0	0	0
Charlottetown (2)	46	14	63	7	75	....	....	....	..	28.7	.....	2	53.0	12	7 0	29	10.6	...	....	....	....	....	....	....	....	..	...	...	...	...	...	....	.....	......	1.84	—	0 33	13	18	0	0	0
Hamilton	46	25	63	48	....	.....	.....	.....	....	.....	.....	....	....	.....	.....	....	....	...	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.					
Newfoundland—																																										
*Amour Point	51	28	56	51	....													...	....	....	....	....	....	....	....	....	....	....	....	....												
Burin	47	0	55	10	27	29.88	30.58	28.93	1.65	26.6	......	3	46.0	12 13	5.0	6	19.3	...	....	....	....	7	4	0	4	2	8	10	25	2	62	......		...	3.01	—	0 70	15	16	0	0	0
*Cape Norman	51	38	55	52	....					15.7	......	27	33.0	12-27	— 2 0	31	—	...	....	....	....	49	10	3	1	1	3	10	16	0	93	......	. .	...	1 98	—	0 50	8	23	0	0	0
Fogo	49	43	54	17	30	29 82	30 46	28 77	1.69	23 0	......	2	40.0	12	8 0	22-23	8 2	...	....	....	....	17	7	0	1	3	2	12	16	0	58	......	.....	.....	5 06	—	0 80	18	13	0	0	1
*Point Rich	50	42	57	25	35					39.1	......	27	36.0	12-26	— 7 0	31	—	...	....	....	....	33	14	0	5	7	7	11	16	0	93	......		....	2 65	0.51	1 20	5	26	0	0	0
Port aux Basques	47	35	59	10	27	29 89	30 53	28.92	1 61	26 2	...	3	43 5	12	10.5	6	10 0	...	....	..	..	9	8	5	1	0	5	9	25	0	62	......	...	.....	3 37	—	0 50	18	13	0	0	0
St John's	47	34	52	42	125	29.76	30.58	28.79	1.79	25.7	— 3.2	38	45 0	12	7.0	23	12 2	...	....	7	6	4	6	0	2	1	13	8	28	0	62	......	....	....	4 61	—0 83	1.20	14	17	0	0	1
Bermuda—																																										
Prospect	32	17	64	46	151	30.19	30.37	29.92	0.45	65 6	+ 0.8	20	73.6	28	55 0	21	8.2	...	....	....	...	5	18	2	7	2	14	2	9	3	62	....		...	3 28	—1 70	1 24	17	14	0	0	1

PRECIPITATION AT STATIONS REPORTING RAIN, SNOW, WEATHER, &c., DURING DECEMBER, 1911.

STATIONS	RAINFALL					SNOWFALL				REMARKS.
	Amount in inches	No. of Days .01 or over	No. of Fair Days	Heaviest Fall in Month	Date	Amount in inches	No. of Days	Heaviest Fall in Month	Date	
British Columbia—										
Alaah Lake	0 42	3	23	0 29	8	3 8	5	1 6	26	
Ashnola	1 40	9	11	0 40	7	21 1	11	4 3	15	
Beaver Lake	1 19	17	14	0 65	22					
Coquitlam	8 55	13	15	2 15	21	11 5	3	1 8	28	
Denman's Island	4 77	14	15	0 72	28	2 0	2	1 5	29	
Ferguson						45 5	11	10 0	7	
Goldstream Lake	6 42	23	5	1 86	22	3 8	3	2 5	29	
Hydraulic										
Hornby Island	4 80	8	23	1 15	18					
Jordan River	8 83	22	9	0 90	22					
Jordan River (Bear Creek)	1 59	16	4	3 12	22	18 1	11	4 5	29	
Little Qualicum Fresh Creek, V.I.	2 80	8	23	0 50	7					
Monte Creek	0 09	1	24	0 09	8	17 5	6	5 0	15-30	
Nass Harbour	7 81	13	16	1 08	22	6 0	2	4 0	21	
Skidegate										
Swan Lake	1 13	22	6	0 95	23	7 0	3	3 0	30 31	
Alberta—										
Bardo						1 5	1	1 5	9	
Bismark						*	1	*	24	
Bruederheim										
Bittern Lake						3 3	4	2 3	9	
Brooks	0 08	1	29	0 08	9	1 8	1	1 0	23	
Conjuring Creek										
Coutts										
Campsie						1 8	4	1 3	20	
Caldwell						8 8	5	5 3	23	
Dorenlee	0 20	1	27	0 02	2	3 5	3	2 0	31	
Dunstable						2 0	7	0 6	20	
Grassy Lake						5 0	2	4 0	28	
Jumping Pound										
Lacombe										
Loch Sloy						5 0	4	2 5	24	
Landon						5 6	2	4 1	23	
Lanehata						0 5	1	0 5	25	
Macleod						10 5	5	5.0	23	
Manda Many Berries Ranch										
Maycroft						7 2	2	4 8	24	
Nateby										
Okotoks						2 5	1	2 5	24	
Pekisko						5 5	3	4 8	23	
Ponoka						5 5	4	2 5	26	
Priddis										
Sion						3 8	4	1 0	25	
Seven Persons						1 5	1	1 5	23	
Tilley										
Saskatchewan—										
Carmichael										
Coulee										
Elm Bow										
Forks Swift Current Gull Lake										
Gull Lake						27 0	4	9 5	16	
Gravelbourg										
Hanley										
Kindersley										
Last Mountain						3 6	7	2 0	9	
Maple Creek						4 8	8	1.0	17-24-25	
Meadow Lake										
Willow Creek						2.0	1	2 0	29	
Manitoba—										
Cartwright						3.3	4	1 0	13-24	
Delorme										
Gretna										
Norquay (Swan Lake)						3 5	8	1 0	14-22	
Rapid City						2.6	4	1 6	24	
Rose Bank										
Ontario—										
Deer Park	2 08	10	18	0.44	12	6 0	3	4 1	30	
Dutton	0 95	2	28	0 50	27	1 0	1	1 0	20	
Limedale	0 96	5	20	0 28	27	8 5	6	2 5	17	
Georgetown	1 30	11	12	0 38	11	10 4	8	4 0	27	
Grantham	1 82	9	19	0 55	13	2 8	3	2 0	31	
Grand Valley	1 04	5	20	0 41	12	12 5	6	4 0	29	
MacCoe	1 23	5	21	0 30	15	4 0	2	3 0	16	
Orangeville	1 09	3	17	0 75	12	15 6	11	4 2	28	
Princeton										
Sydenham	2 35	4	25	1 00	11	3 0	2	2 0	17	
Strathroy	1 12	5	21	0 65	11	10 5	5	6 0	30	
Watford	2 18	4	27	0 78	26					
Westport	1 86	4	22	0 58	16	5 3	5	3 0	13	
Westminster	3 83	5	24	2 06	12	5 0	2	3 0	30	
Wooler	3 56	7	21	0 84	11	*	3	*	1-14-28	
Wesley	1 33	7	17	0 38	9	23 0	7	10 0	28	
Quebec—										
Kepawa										
Lucerne	0 16	2	26	0 13	10	9 5	3	5 0	14	
Perkins Mills	1 71	4	21	0 66	12	15 5	6	6 0	15	
Quinze Dam	1 00	1	25	1 00	10	21 5	5	8 5	27	
Timiskaming	0 21	1	24	0 21	10	21 0	6	5 3	31	
New Brunswick—										
Point Escuminac	0 77	3	24	0 42	23	7.9	4	4 2	23	
Nova Scotia—										
Big Mushamush Lake (Mahone)										
Kentville	1 15	2	25	1 08	23	9 0	4	5 5	3	
Kedgemakooge Lake (New Grafton)										
Liverpool (Indian Gardens)										
Milton										
Mushamush River (Mahone)										
South Alton	2 25	2	25	1 75	23	13 0	4	5 0	2	
White Rock	1 53	4	27	1 12	23					

MEAN PROPORTION OF BRIGHT SUNSHINE REGISTERED IN EACH HOUR OF THE DAY IN THE MONTH OF DECEMBER, 1911.

STATION.	Hours Ending													
	7 a.m.	8 a.m.	9 a.m.	10 a.m.	11 a.m.	Noon.	1 p.m.	2 p.m.	3 p.m.	4 p.m.	5 p.m.	6 p.m.	7 p.m.	8 p.m.
Salmon Arm				.08	.19	23	22	.14	.09	.02				
Victoria			02	14	17	19	28	31	.25	.09				
Nanaimo				01	.14	.16	.12	.02	03	01				
Vancouver			05	15	.23	26	.28	.27	24	.07				
Agassiz				.14	.35	28	.24	18	.16	.03				
Tranquille		.03	.14	.17	.27	.34	.31	.22	03					
Summerland			.07	.20	23	.32	27	29	10					
Kamloops			.06	.23	.32	.32	33	.34	.13					
Edmonton			.07	37	.32	.47	46	.46	.50	13				
Lethbridge		T	20	.28	.35	.39	.35	39	34	26				
Lacombe			.08	.29	.33	42	48	.48	.42	.26	.01			
Medicine Hat			.07	.26	.34	.39	.38	30	22	.05				
Fort Dunvegan						.12	.30	34	.14					
Fort Vermilion			01	.09	.31	41	43	.36	13					
Battleford			.12	40	.54	.52	.45	32	16					
Indian Head				.11	.21	.40	41	.40	.16					
Moosejaw			.19	40	.50	.49	.39	.36	.26	.08				
Scott			.12	19	.25	.24	26	32	.31	.14				
Rosthern		T	.14	.23	.27	.35	.32	.31	28	05				
Brandon		.01	.18	.22	.25	.27	.34	.33	.11					
Winnipeg			.02	.09	.21	.33	40	33	27	.14				
Haileybury		T	.12	.20	.23	.25	.26	.22	.22	.14	T			
Woodstock			.09	.21	.19	23	22	22	.22	.17	.01			
Lindsay			.03	.19	.31	.25	.26	27	.28	18	.03			
Barrie														
Toronto			.10	.22	.22	.27	.30	.33	.21	.12	.01			
Kingston		.01	.22	.38	38	.38	45	.48	.44	.28	.06			
Ottawa			12	27	.32	.38	.43	.39	30	.13				
Montreal			.10	.28	.31	.35	.34	.32	.30	.16				
Cap Rouge			.08	.19	.17	.20	.22	.21	.21	.13	.01			
Quebec			.10	.18	23	.24	.27	.26	.23	.17	.01			
Sherbrooke		T	.07	13	.20	.18	19	18	.13	.06				
Fredericton		.01	23	31	.38	.42	.43	.40	.43	.35	.01			
Charlottetown			.25	.24	.19	.21	26	.32	.30	.17	.01			

	Salmon Arm.	Victoria.	Nanaimo.	Vancouver.	Agassiz.	Tranquille.	Summerland.	Kamloops.	Edmonton.	Lethbridge.	Lacombe.	Medicine Hat.	Fort Dunvegan	Fort Vermilion	Battleford.	Indian Head.	Moose Jaw.	Scott.	Rosthern.	Brandon.	Winnipeg.	Haileybury.	Woodstock.	Lindsay.	Barrie.	Toronto.	Kingston.	Ottawa.	Montreal.	Cap Rouge.	Quebec.	Sherbrooke.
Registered duration in hours	30	45	15	48	43	47	46	53	85	80	85	62	28	53	78	53	82	56	60	50	55	50	48	55	35	55	95	72	66	44	53	35
Percentage of possible duration	12	17	5	19	17	19	18	21	37	32	36	25	11	20	33	21	33	23	26	20	22	19	17	20	13	20	34	27	26	17	20	13
Difference from average %	—	+2	....	....	+2	—	—	—	....	....	....	....	....	....	+2	—2	....	....	....	—14	—13	—	—3	0	—3	—4	+9	+8	0	....	—7	....
Maximum percentage in one day	78	74	58	83	68	75	74	64	92	95	95	81	45	73	69	66	91	95	96	83	72	93	91	81	80	80	93	87	94	89	92	78
Date of maximum	31	24	8	31	28	31	24	10	2	2	1	2	30	30	26	6	3	11	26	6	31	29	7	7	6	29	19	4	19	4	4	14
Number of days completely clouded	21	12	26	16	15	14	15	10	7	7	7	6	14	15	4	11	12	14	14	15	18	13	17	14	15	12	8	14	15	19	18	23

Auroras recorded:—

When the class of aurora is noted by the observer, it is given, I. being the brightest, (IV.) the feeblest in brilliancy.

1. Sion.
2. Sion.
3. Sion
4. Sion.
5. Sion.
6. Sion.
7.
8.
9. Sion.
10. Halkirk, Hillview I, Sion IV, Waitefield II, Hillsdown III, Campsie III, Prince I, Peace River Crossing III, Fort Vermilion I.
11. Waitefield I, Minnedosa I, Campsie IV, Muenster IV, Glenbryan II, Divide IV, Crescent Lake III.
12. Sion IV, Waitefield IV, Campsie II, Divide IV, Grenfell, Fort Vermilion I.
13. Sion III, Fort Vermilion III.
14.
15.
16. Sion.
17. Sion IV.
18. Sion.
19. Kingston I.
20. Sion.
21.
22. Sion.
23.
24. Sion.
25. Halkirk, Aitkensville IV, Sion, Prince II, Muenster II, Crescent Lake III, Fort Vermilion I, Fort Qu'Appelle II.
26. Chagoness III, Fort Vermilion II, Fairview, Fort Qu'Appelle IV.
27. Chagoness IV, Aitkensville IV, Fort Vermilion II, Fort Qu'Appelle IV.
28. Sion.
29. Sion.
30. Chagoness IV, Sion.
31.

A thunder storm recorded at Southampton on 27th.

FORECASTS FOR DECEMBER, 1911.

The forecasts issued by this office at 11 p.m. each night are posted up at every telegraph station in Canada, and are for the 24 hours beginning at 8 a.m. the following day.

The number of these predictions issued during the month was 1222. These were divided as follows:—

District	No. Issued.	Verified			
		No. Fully.	No. Partly	No. Not	Per-centage.
Alberta	79	67	10	2	91 1
Saskatchewan	78	57	17	4	84 0
Manitoba	79	54	19	6	80 4
Lake Superior	102	63	27	12	75 0
Lower Lake Region	111	79	24	8	82 0
Georgian Bay	111	83	21	7	84.2
Ottawa Valley	100	76	12	12	82 0
Upper St. Lawrence	101	77	14	10	83.2
Lower St. Lawrence	111	82	21	8	83.3
Gulf	112	76	27	9	79.9
Maritime Provinces West	119	93	22	4	87 4
Maritime Provinces East	119	80	31	8	80.2
Total	1222	887	245	90	82.6

In order to obtain the percentage of verification of the predictions, the number partly verified is divided by two and added to the number fully verified, and the result divided by the total number issued.

In ascertaining to what extent the predictions have been verified, the reports from the agents at all observing stations, as well as the telegraphic reports, are used.

R. F. STUPART, Director.

Meteorological Office, Toronto,
January 24, 1912.

DEPARTMENT OF MARINE AND FISHERIES, CANADA.

METEOROLOGICAL SERVICE.

SUPPLEMENT TO THE

Monthly Weather Review

FOR 1911

FREE AIR CONDITIONS.

The investigation of the free air conditions over Ontario by means of balloons and kites was commenced during the year. In placing the results obtained at the disposal of meteorologists it will suffice for the present to give a brief account of the apparatus and methods employed, reserving the full description and discussion until fairly complete series of observations have been obtained.

BALLOON EQUIPMENT.

Dines' meteorographs were used on all occasions, and all instruments returned have given good results. The greatest difficulty experienced was in producing hydrogen gas in sufficient quantities to fill the balloons. At first the gas was generated from aluminum and caustic soda, but this method required a very great expenditure of time to obtain even sufficient gas for one balloon. This difficulty was finally solved by using calcium hydride and water. The hydride is similar to the carbide, and with a small portable generator it is now a simple matter to fill a balloon in about five minutes, or taking the time of getting the generator, etc., ready for action—twenty minutes at the most. The balloons are made of rubber bursting at about 1.75 or 2 metres diameter.

The ascents were made at first from Toronto, but as only four balloons were returned out of ten despatched, it was deemed advisable to try another locality where the chances of finding them would be better. All the balloons have travelled easterly, and the lake on which Toronto is situated, and the unsettled parts of the country at some distance to the northeast render it extremely probable that the missing balloons fell in the lake or the forest. Woodstock, which is about 80 miles west of Toronto, was next tried; it is much farther from the lake, and within a radius of over 100 miles the country is cultivated. The results from Woodstock have been very satisfactory, and out of twelve ascents, eight balloons have been recovered.

Balloons were sent up on the evening preceding the international days throughout the year at about midnight G.M.T. Generally the ascending and descending temperature pressure curves are different, but of course it is impossible to tell which is ascending and which descending, except that as there is a certain amount of lag, it is most probable that the curve giving the lowest temperature is the descending one. The results are given for each 0.5 km. of height, with intermediate points if there are any inversions or noteworthy features, and the temperatures for the ascent and the descent at each height are given if they are different; if not distinguishable, then only one temperature is given for the height.

KITE EQUIPMENT.

A kite station has been equipped at Agincourt—latitude 43° 47′ N., longitude 79° 16′ W., about 14 miles from Toronto. The equipment is similar to that employed by Dines at Pyrton Hill, and the Dines' kites and meteorographs were used during the year. These kites are very easily constructed and the meteorographs are not expensive; for these reasons it was considered advisable to use them at first until the station was in good working order, after which other kinds and types will be tried. Records of pressure, temperature, humidity and wind direction have been obtained. Ascents began on the 28th February, and the highest flight was 7,900 feet above sea-level, obtained on the 28th June.

Toronto—Lat. 43° 40', Long. 79° 24'.

REGISTERING BALLOON—ASCENT AT TORONTO ON 3rd FEB., 1911.

Instrument—Dines Meteorograph.
Beginning of Ascent—9.10 p.m., G.M.T.
Barometer—750mm.
Temperature = —4.2°C.
Direction of Flight at Beginning—W., then N., then N.E. at height of 1.1km.
Fell—135km. distant, 25° N. of E.
Maximum Height—11.2km.
Minimum Temperature = —68.0°C.

Height in km.	Pressure in mm.	Temperature in centigrade degrees.	
G.L.	750	—4.2	
.5	716	—6.0	
.8	688	—8.0	
1.0	670	—7.0	—4.0
1.5	629	—5.0	—3.0
2.0	588	—5.0	—4.0
2.5	552	—10.0	—8.0
3.0	518	—13.5	—10.5
3.5	482	—17.0	—15.0
4.0	450	—19.5	—17.5
4.5	421	—23.0	—21.5
5.0	392	—27.5	—25.5
5.5	367	—30.5	—29.0
6.0	341	—35.0	—32.0
6.5	317	—39.0	—36.0
7.0	294	—42.0	—41.0
7.5	273	—47.5	—45.0
8.0	253	—53.0	—51.5
8.5	234	—57.0	—55.0
9.0	216	—61.0	—59.5
9.5	198	—66.0	—64.5
10.0	183	—68.0	—67.0
10.3	174	—68.0	
11.0	156	—64.5	
11.2	152	—63.5	

Feb. 3rd, 1911.

At the time the balloon was let go winds were fresh E. and S.E. all over the Province of Ontario, and continued so for fully 12 hours in advance of a developing trough of low pressure, with two foci, one of which at 8 p.m. was N. of Lake Superior and the other in the Ohio Valley. It is perhaps a remarkable fact that the easterly upper current should have been found at such a low altitude.

Toronto Lat. 43° 40' Long. 79° 24'

REGISTERING BALLOON—ASCENT AT TORONTO ON 7th JUNE, 1911.

Instrument—Dines Meteorograph.
Beginning of Ascent—9.40 a.m. G.M.T.
Barometer—753mm.
Temperature—12.9 C.
Direction of Flight—Started westward rapidly

Fell—88.5 km. distant. S. 59° E.
Maximum Height—13.9km.
Minimum Temperature—63.0° C.

Height in km.	Pressure in mm.	Temperature in centigrade degrees.	
G.L.	753	12.9	
.5	720	12.0	
1.0	679	11.5	
1.5	640	8.0	
2.0	600	5.0	
2.5	563	1.0	
3.0	529	—1.5	
3.5	498	—3.0	
4.0	467	—5.5	
4.5	438	—7.5	—8.5
5.0	410.5	—9.5	—11.5
5.5	381	—11.0	—14.5
6.0	360	—11.5	—19.5
6.1	354	—11.5	—20.5
6.5	337	—21.5	—23.5
6.7	328	—26.0	—28.0
7.0	314	—27.0	—29.0
7.5	293	—29.5	—31.0
8.0	273	—32.5	—33.5
8.5	254	—35.5	—37.0
9.0	237	—40.0	—41.5
9.5	220	—43.5	—45.5
10.0	203	—47.5	—49.5
11.0	174.5	—54.0	—57.5
12.0	148.5	—59.5	—62.0
13.0	126.0	—62.5	—63.0
13.3	121.0	—63.0	
13.9	109.5	—63.0	

June 6th. 1911.

Gradient for easterly winds—28 miles per hour at 8 p.m. Shallow depression south of the Lakes. During next 12 to 20 hours gradient still easterly, but diminishing.

Toronto—Lat 43° 40', Long. 79° 24'.

REGISTERING BALLOON—ASCENT AT TORONTO ON 8th JUNE, 1911.

Instrument—Dines Meteorograph.
Beginning of Ascent—1.25 a.m. G.M.T.
Barometer—753mm.
Temperature = 12.8° C.
Direction of Flight at Beginning—Travelled slowly westward.

Fell—66km distant S. 17° E.
Maximum Height—13.7km.
Minimum Temperature = —58.0 C.

Height in km.	Pressure in mm.	Temperature in centigrade degrees.	
G.L.	753	12.8	
.26	742	15.0	13.0
.5	721	14.5	12.0
1.0	681	11.8	9.0
1.1	675	10.0	9.0
1.5	643	9.5	7.5
2.0	607	7.0	4.5
2.5	571	5.0	2.5
3.0	537	2.0	—1.0
3.5	503	—1.0	—3.0
4.0	472	—2.5	—4.0
4.5	443	—4.5	—7.0
5.0	415	—8.0	—9.5
5.5	388	—11.0	—13.0
6.0	364	—14.0	—16.5
6.5	340	—17.5	—20.5
7.0	317	—21.0	—24.0
7.5	297	—25.5	—28.0
8.0	277	—30.0	—32.0
8.5	258	—33.0	—36.0
9.0	240	—36.5	—40.0
9.5	223	—40.0	—44.5
10.0	208	—45.5	—48.0
11.0	179	—53.5	—53.5
12.0	154	—56.5	—59.0
13.0	132	—58.0	
13.7	118	—58.0	

June 7th, 1911.

High barometer over Great Lakes and Low over Southern States, with gradient for N.E. winds. Weather mostly cloudy and temperature about normal.

Toronto—Lat. 43° 40', Long. 79° 24'.

REGISTERING BALLOON—ASCENT AT TORONTO ON 8th JUNE, 1911.

Instrument—Dines Meteorograph.
Beginning of Ascent—11.40 p.m. G.M.T.
Barometer—756.2 mm.
Temperature = 20.0 °C.
Direction of Flight at Beginning—N.W., then E.S.E.

Fell—80.5km. distant, S. 24° E.
Maximum Height—13.7km.
Minimum Temperature = −67.0°C.

Height in km.	Pressure in mm.	Temperature in centigrade degrees.	
G.L.	756.2	20.0	
.5	720.0	20.0	
.6	712.0	20.0	
1.0	679.5	15.0	
1.5	639.0	11.0	
2.0	601.0	8.5	7.5
2.5	566.0	8.0	4.5
3.0	532	7.0	4.5
3.1	523	7.0	4.5
3.5	500	5.0	3.0
4.0	468	0.0	−1.0
4.5	438	−5.0	−5.5
5.0	410	−8.5	−10.0
5.5	384	−12.5	−15.0
6.0	359	−16.5	−19.0
6.5	340	−19.0	−22.0
7.0	313	−23.5	−27.0
7.5	293	−28.0	−32.0
8.0	272	−32.0	−37.0
8.5	253	−35.5	−41.5
9.0	236	−39.0	−45.5
9.5	219	−43.5	−49.0
10.0	204	−48.5	−53.0
10.5	190.5	−53.0	−57.0
11.0	177	−56.0	−61.0
12.0	151	−62.0	−66.0
13.0	128	−66.5	
13.5	117	−67.0	
13.7	113	−67.0	

June 8th, 1911.

In centre of a high area, with fine, warm weather. On the following day winds were east and southeast in advance of a shallow depression from the westward.

Woodstock—Lat. 43° 8′, Long. 80° 47′.

REGISTERING BALLOON—ASCENT AT WOODSTOCK ON 5th JULY, 1911.

Instrument—Dines Meteorograph.
Beginning of Ascent—11 p.m. G.M.T.
Barometer—739mm.
Temperature = 27.0°C.
Direction of Flight at Beginning—S.E., with thunderstorm approaching from N.W.

Fell—70.8km. distant, N.E.
Maximum Height—17.0km.
Minimum Temperature = —70°C.

Height in km.	Pressure in mm.	Temperature in centigrade degrees.
G.L.	739	27.0
.5	722	27.5
1.0	681	26.5 24.0
1.5	641.5	22.0 20.0
2.0	605	17.0
2.5	570	12.5
3.0	537.5	8.5
3.5	503	4.5
4.0	473	1.5 0.0
4.5	444	—1.5 —3.5
5.0	417	—5.0 —7.0
5.5	390	—8.0 —10.0
6.0	364.5	—12.0 —14.0
6.5	341	—16.0 —17.0
7.0	318.5	—20.0
7.5	298.0	—22.0 —23.0
8.0	278.5	—24.0 —25.5
8.5	260.0	—27.5 —29.0
9.0	242.0	—31.0 —33.0
9.5	225.5	—35.0 —36.0
10.0	209.5	—38.0 —40.0
11.0	180.5	—45.5 —47.5
11.5	167.5	—49.0 —51.0
12.0	155.0	—53.0 —55.0
13.0	133.0	—60.5 —62.0
14.0	112.0	—66.5 —68.0
15.0	94.9	—69.0 —70.0
15.2	91.8	—69.5 —70.0
16.0	80.1	—67.5
17.0	68.0	—62.5

July 5th, 1911.

Shallow depression passing north of Great Lakes. Moderate westerly gradient with intense heat for some hours, but next morning gradient for N.W. and N. winds, with approaching high area and change to cooler weather.

W[illegible]stock—Lat. 4[illegible]S. Long. 80[illegible]47

REGISTERING BALLOON—ASCENT AT WOODSTOCK ON 2nd AUG., 1911.

Instrument—Dines Meterograph.
Beginning of Ascent—11.53 p.m. G.M.T.
Barometer—[illegible]mm.
Temperature—24.0
Direction of Flight at beginning—Slowly eastward.

Fell—93.3km. distant, N.E.
Maximum Height—17.1km.
Minimum Temperature = —66.0

Height in km.	Pressure in mm.	Temperature in centigrade degrees.	
G.L.	735	21.0	
.5	718	20.5	21.5
1.0	676	16.5	18.0
1.5	637	11.5	15.5
2.0	600	10.[illegible]	12.5
2.5	564	7.0	9.5
3.0	529	4.5	6.5
3.5	498	1.5	3.5
4.0	467	—0.5	1.0
4.5	438	—3.0	—2.0
5.0	411	—6.0	—4.5
5.5	384	—9.0	—7.0
6.0	361	—11.0	—9.5
6.5	338	—13.5	—12.0
7.0	317	—16.5	—14.5
7.5	297	—20.0	—17.5
8.0	277	—23.5	—21.0
8.5	258	—27.0	—25.0
9.0	241	—31.0	—29.0
9.5	225	—35.0	—33.5
10.0	208	—38.5	—37.0
11.0	180	—47.5	—45.0
12.0	155.5	—58.5	—56.5
13.0	132.0	—65.5	—64.5
13.6	119.3	—66.0	
14.0	112.6	—66.0	
14.65	100.0	—66.0	
15.0	94.3	—64.0	
16.0	80.0	—62.0	
17.0	67.8	—62.6	
17.18	66.0	—62.0	

Evening of 2nd August.

Winds were light and variable, but before morning the gradient, although quite slight, was distinctly easterly; temperature a little higher than normal and weather thundery.

Woodstock—Lat. 43° N., Long. 80° 47'.

REGISTERING BALLOON—ASCENT AT WOODSTOCK ON 7th SEPT., 1911.

Instrument—Dines Meteorograph.
Beginning of Ascent—0.30 a.m. G.M.T.
Barometer—735mm.
Temperature = 15° C.
Direction of Flight at Beginning—Slowly westward.

Fell 116km. distant, S. 80° E.
Maximum Height = 10.2k.m.
Minimum Temperature = - 39.0° C.

Height in km.	Pressure in mm.	Temperature in centigrade degrees
G.L.	735	15.0
.5	718	13.0
1.0	671	11.0
1.5	635	11.0 12.0
2.0	599	11.0
2.5	563	10.6
2.7	551	10.6
3.0	530	8.0
3.5	498	1.0 6.0
4.0	468	2.0 1.0
4.5	439	1.0
5.0	411	2.0
5.5	387	5.0
6.0	361	—8.0
6.5	338	—12.0
7.0	317	—17.0
7.5	296	—21.0
8.0	276	—30.0
8.5	257	—36.0
8.8	248	—39.0
9.0	238	—39.0
9.5	221	—39.0
10.2	200	

Sept. 6th—Evening.

At the time the balloon was let go there was a high pressure area north of Manitoba and the Great Lakes and a shallow depression advancing eastward across the State of Iowa. During the evening and early night, the winds in Southern Ontario were moderate, northeast and east, increasing to fresh in the early morning. The balloon fell 116 km. distant, almost directly opposite to the direction which the surface wind would have carried it.

Woodstock—Lat. 43° N., Long. 80° 47'

REGISTERING BALLOON—ASCENT AT WOODSTOCK ON SEPT 9th, 1911.

Instrument—Dines Meteorograph.
Beginning of Ascent—2.50 p.m. G.M.T.
Barometer—741mm.
Temperature—19.4° C.
Direction of Flight at Beginning—Straight up and then N.E.

Fell—185km. distant, S. 8° E.
Maximum Height—20.2km.
Minimum Temperature = —62° C.

Height in km.	Pressure in mm.	Temperature in centigrade degrees.	
G.L.	741	19.4	
.5	723	17.5	
1.0	681	14.0	
1.2	663	13.5	
1.5	640	13.0	10.5
2.0	602	10.5	7.5
2.5	566	9.0	6.0
3.0	532	7.0	4.5
3.5	503	4.5	1.5
4.0	474	1.0	—1.5
4.5	449	—1.5	—4.0
5.0	423	—3.0	—5.5
5.5	400	—5.0	—7.5
6.0	375	—7.0	—10.0
6.5	352	—9.0	—13.0
7.0	329	—12.0	—16.0
7.5	308	—15.0	—19.0
8.0	287	—19.0	—22.5
8.5	268	—23.0	—27.0
9.0	251	—26.0	—30.0
9.5	233	—29.5	—34.5
10.0	217	—34.5	—39.0
11.0	188	—42.5	—48.0
12.0	163	—51.0	—55.5
13.0	138	—54.0	—59.0
14.1	117	—57.5	—62.0
15.0	101	—60.0	
16.0	85.6	—58.5	
17.0	72.8	—58.0	
18.0	62.0	—58.0	
19.0	52.8	—58.5	
20.2	43.0	—59.0	

An area of high pressure over the Great Lakes. Winds light and variable. Weather fine. Very feeble depression passed to the northward on the following day.

Woodstock—Lat. 43° 8', Long. 80° 47'.

REGISTERING BALLOON—ASCENT AT WOODSTOCK ON NOV. 8th, 1911.

Instrument—Dines Meteorograph.
Beginning of Ascent—11 p.m. G.M.T.
Barometer—736mm.
Temperature = 4.6°C.
Direction of Flight at Beginning—Slow drift to S.S.W.

Fell—204km. distant, E.
Maximum Height—18.5km.
Minimum Temperature = —62 C.

Height in km.	Pressure in mm.	Temperature in centigrade degrees.
G.L.	736	4.0
.5	713	2.0
1.0	670	—2.5
1.48	632	—5.0
1.51	629	—2.0 —5.0
1.60	621	—2.0 —6.5
1.7	614	—2.0
2.0	591	—2.5
2.35	565	—3.0
2.50	555	—4.5
3.0	520	—5.5
3.5	486	—8.5
4.0	456	—11.5
4.5	427	—14.0
5.0	400	—16.5
5.5	373	—20.5
6.0	348	—23.5
6.5	326	—27.5
7.0	303	—31.0
7.5	283	—35.0
8.0	262	—38.0
8.5	244	—41.0
9.0	227	—43.5
9.5	210	—45.5
10.0	196	—47.5
11.0	168	—50.5
12.0	143	—53.0
13.0	122	—55.0
14.0	104	—57.0
15.0	89	—59.0
16.0	75.7	—61.0
17.0	64.2	—61.0
18.0	54.6	—61.5
18.5	50.0	—62.0

A ridge of high pressure extended over the whole of Ontario and the Middle Atlantic States, with two foci, one to the north of Lake Huron and the other off the Middle Atlantic Coast; the pressure conditions did not change appreciably during the night.

[illegible] Long. [illegible]

REGISTERING BALLOON—ASCENT AT WOODSTOCK ON DEC 5th, 1911.

[illegible] Dines meteorograph
[illegible] Ascent—11.47 p.m. G.M.T.
[illegible] 750 mm.
Temperature [illegible]
Direction of Flight at Beginning [illegible] E.N.E. in fresh wind

Fell [illegible] km. distant, S. 45 E.
Maximum Height—12.4 km.
Minimum Temperature [illegible] 64.5 C

Height in km.	Pressure in mm.	Temperature in centigrade degrees.	
G.L.	746	0.0	
.55	718	0.0	—1.0
.75	700	2.5	1.5
1.00	679	4.5	2.5
1.20	660	5.0	3.0
1	652	5.0	3.0
1.4	643	4.0	
1.55	632	4.0	
1.80	612	4.0	2.0
2.0	598	3.5	1.5
2.5	560	1.5	0.0
3.0	525	—0.5	—3.0
3.5	492	—1.0	—3.5
4.0	461	—3.5	—6.0
4.5	432	—7.5	—10.5
5.0	404	—12.0	—15.5
5.5	378	—18.0	—20.0
6.0	352	—22.5	—25.5
6.5	328	—27.5	—30.5
7.0	304	—33.5	—36.0
7.5	283	—39.5	—41.0
8.0	263	—42.5	—44.0
8.5	243	—45.0	—46.5
9.0	227	—47.5	—50.0
9.5	209	—51.0	—53.5
10.0	192	—54.5	—57.0
10.5	177	—58.0	—60.0
11.0	163	—61.0	—62.0
11.5	150	—64.0	
11.8	143	—64.5	
12.0	138	—64.0	
12.4	129	—62.0	

Sent off with a gradient for fresh to strong W.S.W. winds, which continued almost unchanged through night.

Woodstock—Lat. 43° 8′, Long. 80° 47′.

REGISTERING BALLOON—ASCENT AT WOODSTOCK ON 6th DEC., 1911.

Instrument—Dines Meteorograph.
Beginning of Ascent—11.0 p.m. G.M.T.
Barometer—746mm.
Temperature—2.0° C.
Direction of Flight at Beginning—E.N.E. in light wind.

Fell—114km. distant, N. 70° E.
Maximum Height—10.25km.
Minimum Temperature—57.0° C.

Height in km.	Pressure in mm.	Temperature in centigrade degrees.	
G.L.	746	2.0	
.5	721	3.5	
.9	687	6.5	
1.0	678	6.5	
1.1	669	6.5	
1.5	635	4.0	
2.0	597	3.0	1.5
2.1	590	3.0	1.0
2.5	560	—1.0	—2.0
3.0	525	—3.0	—4.5
3.5	491	—5.5	—7.5
4.0	460	—8.0	—10.0
4.5	431	—11.0	—12.5
5.0	403	—14.5	—16.0
5.5	378	—19.5	—20.5
6.0	352	—22.5	—24.5
6.5	328	—24.0	—26.5
7.0	307	—26.5	—27.5
7.5	285	—33.5	—34.0
8.0	265	—38.5	—39.5
8.5	246	—42.0	—43.5
9.0	227	—46.5	—48.0
9.5	211	—50.5	—52.0
10.0	195	—55.0	—55.5
10.25	186	—57.0	

Shallow low over Lake Superior—southwesterly gradient. General direction of flight not over 30° to right of surface current.

Woodstock—Lat. 43° N., Long. 80° 47'.

REGISTERING BALLOON—ASCENT AT WOODSTOCK ON 7th DEC., 1911.

Instrument—Dines Meteorograph.
Beginning of Ascent—10 00 p.m. G.M.T.
Barometer—747mm.
Temperature—4.0° C.
Direction of Flight at Beginning—Straight up and then E.

Fell 407km. distant, N. 70° E.
Maximum Height—12.1km.
Minimum Temperature——57.0° C.

Height in km.	Pressure in mm.	Temperature in centigrade degrees.	
G.L.	747	4.0	
.5	723	4.0	
.7	707	4.0	
.9	688	6.5	4.0
1.0	679	6.0	4.0
1.5	636	2.0	
2.0	597	0.0	—2.5
2.5	561	—3.0	
2.7	548	—4.0	
2.9	532	—3.5	—5.5
3.0	525	—4.0	—6.5
3.5	492	—9.0	—10.0
3.6	486	—11.0	
3.7	479	—12.0	
4.0	461	—12.0	—14.0
4.5	430	—16.0	—17.5
5.0	401	—19.0	—21.0
5.5	374	—21.0	—24.5
6.0	350	—23.5	—27.0
6.2	340	—25.0	—27.5
6.5	326	—28.5	—30.0
7.0	303	—33.0	—34.5
7.5	282	—37.5	—39.5
8.0	262	—42.5	—44.0
8.5	243	—48.0	—49.5
9.0	224	—52.0	—54.5
9.4	212	—55.0	—57.0
9.5	208	—57.0	
10.0	192	—56.5	
10.5	177	—55.0	
11.0	163	—56.0	
12.0	140	—56.5	
12.1	137	—56.5	

Pressure highest over Middle Atlantic States, diminishing over Upper Lakes; gradient for light but increasing S.W. winds. Direction of flight somewhat, but not greatly, to right of the surface wind direction.

KITES CARRYING METEOROGRAPHS

Results of Free Air Observations, Agincourt, Canada

Date	Time	Height in Metres Above S.L.	Pressure in m.m.	Temp. °C	Relative Humidity	Wind		Remarks
						Direction	Velocity m.p.s	
	h. m.							
1911								
February 28th....	1.30	171	754	— 4.4				
	1.50	490	723	—13.3				
	2.10	500	722	—11.4				
March 6th.....	12.15	171	758	— 5.6		N.E.	4.5	
	2.00	350	738	—10.0				
	2.45	300	742	—11.7				
	3.15	320	740	—12.8				
March 19th.....	12.45	171	741	2.2	90	E.	4.0	
	1.15	610	710	— 2.8	91			
	1.45	610	710	— 4.4	94			
	2.05	700	702	— 6.1	100			E. to E S. E.
	2.30	650	725	— 3.3	100			throughout.
	2.40	610	710	— 4.4	100			
	3.00	680	722	— 1.7	100			
	3.15	610	710	— 5.0	100			
March 28th.....	11.45	171	739	— 3.3	75		10.7	
	12.05	430	714	— 8.3	95			N. W.
	12.15	680	691	— 8.9	100			throughout
	12.25	650	695	— 8.9	100			
	12.55	430	714	— 7.2	100			
March 31st.....	11.26	171	737	— 1.7	65		9.4	
	11.40	440	710	—12.2	80			
	11.56	610	695	—15.0	90			N. W.
	12.20	940	666	—15.0	62			throughout
	1.10	1080	652	—15.6	20			
	1.40	410	712	— 2.8	85			

KITES CARRYING METEOROGRAPHS

Results of Free Air Observations—Agincourt, Canada.

Date	Time	Height in Metres Above S.L.	Pressure in m.m.	Temp. C	Relative Humidity	Wind		Remarks
						Direction	Velocity m.p.s.	
1911	h. m.							
April 12th	11 15	171	760	5 6	50	S.E.	6 7	
	11 35	420	736	3 9	33	S.W	1 5	
	11 50	740	706	0 0	60	S W	13 4	
	12.10	950	688	— 1 7	86	S.W	17 9	
	12 30	1140	671	— 1 7	100	In cloud		
	1 00	1350	651	— 2 2	100	In cloud		
	1 15	1450	645	— 2.2	100	In cloud		Shower at 1.10
April 19th	12.36	171	742	7.2	88			
	12.46	480	716	5.6	82			East Wind
	1 08	610	704	6.1	81			
	1 40	600	707	6 1	80			
April 22nd	9 36	171	746	6.9	75			
	10.30	760	695	— 2.5	95			Wind East throughout flight. Encountered cloud at about 1200 m elevation
	10.52	530	714	— 1.9	95			
	11 00	1110	662	— 4.4	93			
	11 50	1530	627	— 8 1	94			
	12 14	1620	621	— 8.1	96			
	1.06	1650	618	— 9 2	80			
	1 25	1930	597	— 10.3	95			
	1 46	1330	646	— 8.6	95			
May 2nd	12 53	171	744	1.1	40		6 7	
	1.37	660	701	— 3.9	55			Wind W.N.W. at surface. Kite in cloud at 750 m. elevation
	2 05	960	674	— 5 6	60			
	2 27	620	704	— 5 0	60			
	2.57	920	679	— 6 1	57			
	3 19	490	717	— 2 8	52			

KITES CARRYING METEOROGRAPHS

Results of Free Air Observations, Agincourt, Canada.

Date	Time	Height in Metres Above S.L.	Pressure in m.m.	Temp. C	Relative Humidity	Wind		Remarks
						Direction	Velocity m.p.s.	
1911	h. m.							
May 8th.....	10.38	171	749	23.3	75			
	11.10	600	710	21.7	60			
	12.49	490	722	21.1	59			Wind south at
	1.33	950	681	16.7	59			surface and west
	2.02	1160	665	15 0	60			at all elevations
	3.27	1240	657	12 8	65			given here.
	4.19	1540	632	7.8	70			
	4.37	900	687	15.6	69			
May 10th.....	10.07	171	743	14.4	93	E.	8.0	
	11.42	720	694	12.2	85	S.S.E.		
	12.20	370	726	12.2	80	S.E.		
	1.00	870	682	11.7	75	S.		
	1.08	490	716		78			
May 12th.....	10.08	171	745	23.9	72			
	10.48	800	691	20.0	62			
	11.20	1130	667	16.7	68			
	11.30	300	732	21.1	55			West wind
	11.50	870	686	18.3	50			throughout flight.
	12.08	1420	642	11.7	58			Day very clear
	12.24	1510	637	10.0	67			
	12.57	710	699	9.4	52			
	1.15	1350	648	1.7	68			
	1.38	910	680	11.1	70			
May 16th.....	9.50	171	749	15.6	80	E.		
	10.10	290	736	13.3	83	S E.		Surface wind
	10.18	400	727	12.8	88	"		6.3 metres per
	11.22	520	717	11.7	79	"		sec. at 11 a.m.
	1.40	500	719	12.8	70	"		3.4 at 2 p.m.

KITES CARRYING METEOROGRAPHS

Results of Free Air Observations, Agincourt, Canada

Date	Time	Height in Metres Above S.L.	Pressure in m.m.	Temp. C	Relative Humidity	Wind Direction	Wind Velocity m p.s.	Remarks
1911	h. m.							
May 24th.	10.18	171	747	21.7	55			
	11.00	630	706	13 9	72			
	11 33	880	686	10.0	78			
	11.53	1340	647	6.7	77			
	1 05	1635	623	7.2	95			West wind throughout flight. and day clear
	1 52	1460	635	5.6	89			
	2.44	1830	608	4.4	65			
	3.16	1450	636	6.7	57			
	3.32	1500	633	6.7	60			
	4.47	1260	654	7.8	65			
May 29th.....	10.35	171	751	18.9	40			Surface wind
	11.35	466	724	16.7	40			north, shifting
	1.10	668	708	18.9	15			towards west as
	2.13	761	697	17.8	8			kite ascended.
June 1st	9.25	171	742	18.9	58			Clouds at 450 metres elevation. Wind N.W. at surface, shifting to W. at highest elevation.
	9.45	870	680	10.0	84			
	10.05	650	700	11.1	68			
	10 27	1420	637	11.1	46			
June 1st.....	12.00	171	742	17.8	80	N.W.	6.3	
	12.25	350	724	9.4	85			
	12.45	550	707	6.7	95			
	1.05	900	678	2.8	100	W.N.W.		
June 14th	12.54	171	738	20.6	51			
	1 03	300	723	17.8	57			Wind north
	1.08	509	706	14.4	61			throughout flight
	1.12	670	693	12.8	68			

Continued

KITES CARRYING METEOROGRAPHS

Results of Free Air Observations, Aginconrt, Canada

Date	Time	Height in Metres Above S.L.	Pressure in m.m.	Temp. °C	Relative Humidity	Wind		Remarks
						Direction	Velocity m.p.s.	
	h. m.							
1911								
June 14th..... (continued)	1.24	750	685	12.2	71			
	1.30	840	677	10.6	77			
	2.12	1170	653	8.9	79			
	2.28	1408	631	6.1	89			Wind north throughout flight
	2.46	1000	663	8.9	81			
	2.50	800	681	11.7	67			
	2.55	1040	660	9.4	74			
	3.01	870	675	11.1	70			
June 28th.....	10.10	171	745	19.4	60			
	11.00	520	712	13.3	80			
	11.53	750	694	12.2	90			
	12.34	920	677	10.6	100			Cumulous cloud at 1300 metres elevation. Wind S.W. at surface, west above 750 metres.
	12.44	1310	648	7.8	100			
	1.09	1390	642	8.3	90			
	1.19	1920	601	11.1	35			
	1.35	2390	571	11.7	18			
	1.40	2410	569	12.2	17			
	1.52	1910	604	10.0	10			
	2.06	910	680	10.0	100			
	2.18	1310	648	8.9	100			
	2.33	1030	669	12.2	100			
	2.48	850	686	10.6	100			
July 22nd.....	10.55	171	742	22.8	38	N.W.	6.7	
	11.45	680	700	14.4	46	N.W.		
	12.15	890	683	13.9	58	N.W.		
	12.30	980	675	13.3	53	N.W.		
	12.45	830	686	15.0	50	N.W.		
	1.10	1000	673	12.8	53	N.W.		

KITES CARRYING METEOROGRAPHS

Results of Free Air Observations, Agincourt, Canada

Date	Time	Height in Metres Above S.L.	Pressure in m.m.	Temp. C	Relative Humidity	Wind		Remarks
						Direction	Velocity m.p.s.	
1911	h. m.							
July 25th	9 25	171	741	13 9	75	W.	9.8	
	10 03	710	692	6.7	96	"		
	10 13	710	692	7 8	97	"		
August 18th	2 55	171	747	21.1	75	N W	7 1	
	3.03	550	712	13 3	81	N.N.W.		
August 22nd	9 55	171	745	25.0	50	S W.	Fresh	
	10 15	220	737	27.2	50			
	10 25	460	716	23.9	50			
	10.35	780	692	21.1	50			
	10 40	1000	675	18.9	50			
	10.48	1200	659	16.1	50	W.N.W		
September 12th	10.45	171	743	15.0	59	N.W.	6.7	
	11.10	540	708	6.1	78			
	11.35	810	686	2 8	84			
	11.55	930	674	1.1	90			
	12.15	650	700	4.4	75			N.W. wind throughout
	12.37	850	682	2 2	86			
	12.52	1090	662	0 6	80			
	1.15	1090	662	0.0	80			
	1 30	1150	657	— 1.1	78			
	1.45	1020	667	0.6	82			

KITES CARRYING METEOROGRAPHS

Results of Free Air Observations, Agincourt, Canada

Date	Time	Height in Metres Above S.L.	Pressure in m.m.	Temp. C	Relative Humidity	Wind		Remarks
						Direction	Velocity m.p.s.	
1911	h. m.							
November 14th...	12.05	171	748	0.0	80	S.W.		
	12.20	400	726	— 5.5	90			
	12.35	700	699	—10.0	75	W.S.W.		
	12.55	1010	670	—10.5	60			
	1.15	1310	645	—13.0	60	W.		
	1.25	1550	624	—14.0	90	W.		
	1 50	1530	626	—14.0	100	W.N.W.		
November 15th...	11.05	171	737	0 0	45	W.S.W.	6.3	
	11.15	510	704	— 1.0	50	W.		
	11.25	825	677	— 3.5	55	"		
	11.40	1090	655	— 5.0	58	"		
	11.50	1210	644	— 5.5	57	"		
	12.15	920	669	— 5.0	57	"		
November 30th...	10.36	171	713	— 2.0	63	W	8.5	
	10.40	350	727	— 7.0	63	"		
	10.52	560	707	—11.0	65	"		
	11.11	690	696	—10.5	67	"		
	11.30	600	702	—10.5	78	"